

Delta UPS Solutions

All Power Ranges, One Trusted Source



Delta's UPS Systems Demonstrate the Power Behind Competitiveness

An uninterruptible power supply (UPS) is an electrical apparatus designed to furnish emergency power when input sources fail. Different from a standby generator or an auxiliary or emergency power system, in the event of power disruption, a UPS is able to provide near-instantaneous backup power to the mission critical systems, making it an indispensible requirement for many industry applications such as high-value production lines and data centers.

With 50+ years as a global leader in the Power Electronics, Automation, and Infrastructure industries, Delta's teams have been working unrelentingly on innovative designs and industry-leading technology. We offer strong

UPS portfolios suitable for a variety of industrial applications as well as the most power-efficient solutions in response to net-zero initiatives. Our award-winning UPSs not only provide reliable power backup but also act as the best advanced power managers to safeguard against potential energy issues, including voltage surges and spikes, voltage sags, total power failure, and frequency differences to ensure a stable power supply to your critical loads. During power failure, our solutions protect customers from potential loss and can keep operations running smoothly while achieving OPEX savings in the long run.

Applications for Delta's UPS Systems



Information Technology

Data Center Colocation Facility Network & Data Storage Equipment Edge Computing



Financial Services

ATM
Customer Service Kiosks & E-trading
Server & Network Infrastructure
Security System



Telecommunication

Base Station
Mobile Switching Center
Telecom IDC
Transmission & Connectivity Device



Government

Smart City & E-government Infrastructure Surveillance & Security System Public Safety System Building Management System



Industrial

Automation Production
Control Equipment & PLC
CCTV & Security System
Data & Networking Equipment



Education

IT & Network Closet Surveillance & Security System Critical Administrative Office Equipment Lab Equipment



Transportation

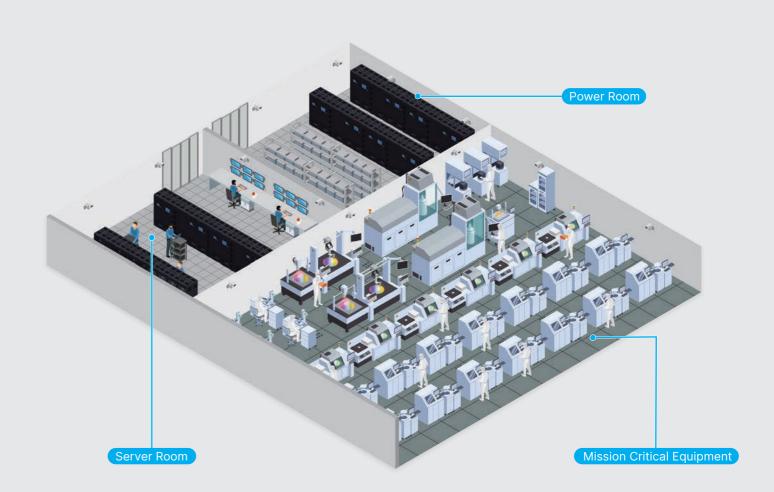
Traffic Signalling & Crossing Auto Ticketing & Fare Gate Security & Monitoring System IT Closet & Server Room



SME & Retail

POS
PC & NAS
Camera
VoIP

Delta's Highly Reliable UPS Safeguards Your Critical Equipment, Production Line and Data Center





Known for Our Quality

Delta's manufacturing across the globe

Delta is the World's No. 1 provider for Switching Power Supplies, DC Brushless Fans and Telecom Power Systems. Our operations are global in scale with 73 R&D centers and 156 sales offices in worldwide. Delta has 51 manufacturing facilities in Taiwan, China, Thailand, India, USA, Brazil, Slovakia and other locations.



Accredited laboratory

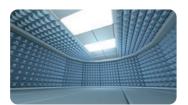
Delta's outstanding product design capability comes from our R&D team and its various precision measurement instruments. Our R&D centers utilize diverse advanced equipment and programs including CAD to facilitate circuit simulation, mechanical design, and PCB layout. Delta has well-equipped laboratories to conduct environment-related substance analysis, precision measurement, failure analysis, soldering techniques, electromagnetic compatibility and interference tests, material chemical analysis, quality engineering, safety tests, and more. In addition, we also have laboratories with controlled temperature and humidity to perform numerous reliability tests.



ORT (Ongoing reliability test)



EMC / EMI (electromagnetic compatibility & interference)



Acoustic test



Pulse lightening discharge

Why Delta UPS?



Quality

- Mass Production Line with Reliable Quality Control: We do things right and deliver the best at one go
- Pass Tightest Checks & Meet Conformance Requirements from Product Development to Production:

All manufacturing sites are certified with ISO 9001 and ISO 14001. Laboratories and are accredited by the China National Accreditation Service for Conformity Assessment (CNAS)



Performance

- Longer Battery Life:
 Wider input voltage range reduces battery use
- Lower TCO:
- High input/output power factor & efficiency increase utilization of utility power, lower harmonic distortion reduces initial capex
- Compact/ Modular Design:
 Agile, flexible and saves more space



Service

- Dedicated Support:
 Professional R&D and FAE teams around the world
- Highly-Customizable: From product-level to solution-level
- Always Helpful:

 Customer Service Line available



Sustainability

- 2011–2022 DJSI World Index 2018–2022 Industry Leader
- 2022 Climate Change Leadership Level
- 2022 Water Security Leadership Level
- 2022 Sustainability Award Gold Class

Member of
Dow Jones
Sustainability Indice
Powered by the S&P Global CSA







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Delta UPS

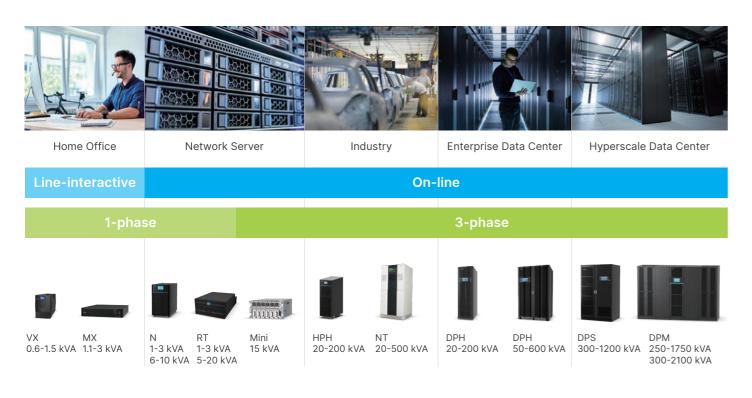
Uninterrupted Power, Unstoppable Operation

In the digital era, where dependence on technology is paramount, the Uninterrupted Power Supply (UPS) is indispensable. Addressing the constant challenges posed by power outages, fluctuations, harmonic distortion and frequency variation, a UPS ensures seamless electrical continuity. By preventing disruptions, it safeguards operational services, bolstering productivity and business continuity. A UPS not only protects against operation losses but also contributes to prolonged equipment lifespan and data preservation. Investing in a UPS is not just a necessity, it's a strategic move toward sustaining uninterrupted operational services and ensuring optimal productivity for your business.

Why choose a Delta UPS?

- Leading AC-AC efficiency in a compact form
- Fully redundant design with predictive reliability
- Seamless expansion without additional hardware requirements
- High input and output power factor to optimize energy usage
- User-friendly interface for local and remote monitoring/control
- Customizable products tailored to meet distinct requirements

Delta provides a full range of UPSs



Product Matrix

Series		Topology	Configuration	Form	Battery	Page
Agilon Family	Under 1.5 kVA	•				
	VX Series 0.6-1.5 kVA	Line-interactive	1:1	Tower	Internal	7-8
Amplon Family	1 to 20 kVA					I
	MX Series 1.1-3 kVA	Line-interactive	1:1	Rackmountable Tower	Internal	9-10
	N Series 1-3 kVA (Gen3) 6-10 kVA	On-line	1:1	Tower	Internal External	11-14
	RT Series 1-3 kVA (Gen3) 1-3 kVA (Pro)	On-line	1:1	Rackmountable Tower	Internal External	15-18
	RT Series 5-20 kVA	On-line	1:1 (5-10 kVA) 3:1, 3:3 (10-20 kVA)	Rackmountable Tower	External	19-20
Modulon Family	15 to 600 kVA					
000000	Mini Series 15 kVA	On-line	3:1	Rackmountable	Internal	21-22
	DPH Series 20-200 kVA	On-line	3:3	Modular	Internal (75k) External	23-26
	DPH Series 50-600 kVA	On-line	3:3	Modular	External	27-28
Ultron Family	20 to 2100 kVA		1		1	I
	HPH Gen2 Series 20-40 kVA	On-line	3:3	Monolithic	Internal (BN/B) External	29-30
	HPH Series 60-200 kVA	On-line	3:3	Monolithic	External	31-34
	NT Series 20-500 kVA (Transformer-based)	On-line	3:1, 3:3	Monolithic	External	35-36
	DPS Series 300-1200 kVA	On-line	3:3	Monolithic	External	37-38
	DPM Gen2 Series 250-1750 kVA 300-2100 kVA	On-line	3:3	Monolithic	External	39-42



VX Series, Single-Phase 600/1000/1500 VA

The Agilon VX series line-interactive UPS designed with microprocessor control offers reliable and cost-effective power protection for PCs, monitors, POS, and other sensitive electronics used in home offices and small businesses. The integrated Automatic Voltage Regulation (AVR) ensures all electronics are receiving stable power while providing higher availability. The Agilon VX series' LCD display, auto-shutdown software and other superior features make these units perfect for your data protection.



Reliability

- •The integrated AVR (Automatic Voltage Regulation) stabilizes the output voltage for better power quality
- Excellent microprocessor control enables accurate detection of power frequency for higher reliability
- Wide input voltage range allows the UPS to work in harsh electrical environments and reduces battery discharging time
- Batteries automatically recharge even when the UPS is in off mode and the UPS can start without mains (Cold-Start)
- UPS restarts automatically while utility power is recovering
- Surge protection defends your critical load against damage

Convenience

- Several standard IEC 320 output sockets simplify the connectivity to computer and IT peripherals
- Compact size saves more space for critical equipment

Manageability

- Standard USB communication port enhances monitoring and manageability
- Touch screen LCD for a clear display of UPS information (Only applicable for LCD models)
- · Advanced UPS management software provides remote shutdown and control

Applicable Sectors





SME

Retail

Technical Specifications

Model		VX-600VA	VX-1000VA	VX-1500VA			
Topology		Line interactive	Line interactive				
Power Rating		600 VA	1000 VA	1500 VA			
		360 W	600 W	900 W			
INPUT				1.5.5			
Nominal Voltage		230 Vac, 1P2W+PE	230 Vac 1P2W+PF				
Voltage Range		170-280 Vac (100% load)					
Frequency Range		45-65 Hz					
Plug Type ⁽¹⁾		IEC					
OUTPUT							
Nominal Voltage		230 Vac, 1P2W+PE					
Voltage Regulation		±10%					
Frequency		50/60 ± 1 Hz					
Power Factor		0.6					
Connection ⁽²⁾	EMEA Model	0.0		IEC C13 x6			
Comicotion	SEA Model	IEC C13 x4		IEC C13 x4			
Overload Capability		110 ± 10%: < 5 mins		120 010 %			
EFFICIENCY							
Online Mode		Up to 95%					
BATTERY		Op 10 93%					
		VD. 4	AND A				
Battery Type			VRLA				
Nominal Voltage		12 Vdc	24 Vdc	0			
Quantity Runtime ⁽³⁾	ENTA NAS-ISI	1 pcs	2 pcs	2 pcs			
Runtime	EMEA Model	5.7 mins	5 mins	6.8 mins			
Daahanna Tina	SEA Model	C 0 h		5.5 mins			
Recharge Time	INTERFACE	6-8 Hours to 90%	6-8 hours to 90%				
COMMUNICATION							
Display	EMEA Model	LCD touch panel	LCD touch panel				
_	SEA Model	LED indicator					
Port			USB				
Audible Alarm		Battery mode, Low battery, 0	Battery mode, Low battery, Overload, Fault				
PHYSICAL							
Dimensions (W x D :		101 x 279 x 142 mm	130 x 320 x 182 mm				
Net Weight	EMEA Model	4.4 kg	8.2 kg	10.4 kg			
	SEA Model	4.2 kg	0	9.7 kg			
Packing Dimensions		140 x 344 x 220 mm	192 x 390 x 275 mm				
Packing Weight	EMEA Model	4.7 kg	8.9 kg	11.1 kg			
	SEA Model	4.5 kg	3	10.4 kg			
ENVIRONMENT							
Operating Temperature		0 to 40 °C					
Humidity		0-95% (non-condensing)	0-95% (non-condensing)				
Audible Noise		< 40 dBA	< 40 dBA < 45 dBA				
Altitude		0-1000 m	0-1000 m				
Storage Temperatur		-20 to 50 °C	-20 to 50 °C				
Ingress Protection L	.evel	IP20					
CONFORMANCE							
Safety		CE, UKCA, EAC, TISI, RCM, E	CE, UKCA, EAC, TISI, RCM, BIS, KC				
Sustainability		RoHS, REACH					

(1) Models with Australian, Korean, Indian, and Schuko input plugs are also available

(2) Options include Schuko, AU and IN output connections

(3) Runtime with 50% load



MX Series, Single-Phase 1.1/2/3 kVA

The Amplon MX line-interactive UPS provides pure sine-wave quality compatibility for versatile application to protect devices and prevent small-and-medium businesses from power failure and voltage variations all in a small footprint. The Amplon MX series features enhanced output power factor 0.9, and AVR efficiency up to 96.5%, resulting in a greater power supply for critical loads at significantly less operating cost.



Availability

- Microprocessor-based line interactive design for fast response to power disturbances
- Programmable outlet disconnects non-critical loads when a blackout occurs and reserves more battery power for critical loads
- Automatic voltage regulator (AVR) delivers stable output voltage during brownouts or over-voltages
- Wide input voltage range allows the UPS to work in harsh electrical environments
- Hot-swappable battery design protects equipment during battery replacement

Flexibility

- Supports both rack and tower installation
- Excellent management through a user-friendly graphical and easy-shift LCD display to suit different installation formats
- Supports multiple communication interfaces, including USB port, RS-232, Mini Slot, Surge Protection, and REPO for enhanced monitoring and manageability

Low Total Cost of Ownership

- Output power factor is up to 0.9 to provide more real power to critical loads
- Delivers up to 98.5% efficiency at full load in normal operating mode
- Wide input range and protection against over voltage prolongs battery life

Applicable Sectors





Financial





Government





Technical Specifications

Model		NOV 141/	MAY OV	MX-3K			
Model		MX-1.1K	MX-2K	MX-3K			
Topology		Line interactive					
Waveform		Sinewave					
Power Rating		1.1 kVA	2 kVA	3 kVA			
		0.99 kW	1.8 kW	2.7 kW			
INPUT							
Nominal Voltage	е	200/ 208/ 220/ 230(default	200/ 208/ 220/ 230(default)/ 240 Vac, 1P2W+PE				
Voltage Range		170-280 Vac ⁽¹⁾					
Frequency Rang	ge	45-65 Hz					
Connection		IEC C14	IEC C20				
OUTPUT							
Nominal Voltage	е	200/ 208/ 220/ 230/ 240 V	ac, 1P2W+PE				
Voltage Regulat	ion	±1.5%					
Frequency		50/60 ± 1 Hz					
Total Harmonic	Distortion (THDv)	< 2% (linear load); < 5% (no	on-linear load)				
Power Factor		0.9					
Connection		Programmable outlet IEC C Non-programmable outlet I		Programmable outlet IEC C13 x4, Non-programmable outlet IEC C13 x4. IEC C19 x1			
Overload Capab	oility	< 103%: continues; 103-120	0%: 5 mins; 120-150%: 10 secs				
Current Crest R	atio	3:1					
EFFICIENCY							
Normal Mode		98%	98.3%	98.5%			
AVR Mode		95.5%	96.5%				
BATTERY							
Battery Type		VRLA					
Nominal Voltage	٩	24 Vdc	48 Vdc	72 Vdc			
Quantity		2 pcs	4 pcs	6 pcs			
Runtime	100% Load	2.7 mins	3.4 mins	3.7 mins			
rantino	75% Load	5 mins	6.1 mins	6.7 111110			
Recharge Time	7 070 2000	4 hours to 90%	c mino				
COMMUNICATI	ON INTEDEACE	4 110413 to 5070					
	ONINTERFACE	LOD diamless with LED in dia-					
Display Port			LCD display with LED indicators				
Audible Alarm			USB, RS-232, Mini slot, REPO, Surge protection				
	Off		Battery mode, Low battery, Battery missing/replacement, Overload, Fault, EPO enable, Over temperature				
Emergency Pow PHYSICAL	ver OII	Yes					
Dimensions (W	x D x H)	438 x 410 x 88 mm	438 x 510 x 88 mm	438 x 630 x 88 mm			
Net Weight		14.1 kg	21.3 kg	32.1 kg			
Packing Dimens	sions (W x D x H)	500 x 560 x 180 mm	565 x 700 x 200 mm	600 x 760 x 200 mm			
Packing Weight		16.1 kg	29.7 kg	35.3 kg			
ENVIRONMENT							
Operating Temp	perature	0 to 40 °C (without derating	g)				
Humidity		20-90% (non-condensing)					
Audible Noise ⁽²⁾)	< 45 dBA					
Altitude		0-3000 m (without derating					
Storage Temperature		-20 to 50 °C	-				
Ingress Protecti		IP20					
CONFORMANC							
Safety		CE, UKCA, TISI, RCM					
Sustainability		RoHS, REACH					
Sustamability		NOTIO, NEAGIT					

(1) 200 V: 150-234 Vac, 208 V: 156-243 Vac, 220 V: 162-268 Vac, 240 V: 177-290 Vac



N Gen3 Series, Single-Phase 1/2/3 kVA

The Amplon N Gen3 Series 1-3 kVA is an online doubleconversion uninterruptible power system (UPS) in a best-in-class compact size tower design. It supplies clean sine-wave input power for IT and other sensitive equipment and prevents work interruption, data loss or equipment damage from voltage sags, spikes, harmonic distortion and other power failures.



High Availability

- Output power factor 0.9 provides more wattage to critical loads
- True online double-conversion topology and zero transfer time to battery mode
- Generator compatibility ensures clean, uninterrupted power to the loads during an extended power outage

Green with Low TCO

- Capable of working in harsh electrical environments with wide I/P voltage range to minimize battery usage
- Excellent overload capacity allows the overload condition to continue within the timeframe
- AC-AC efficiency up to 90%, and ECO mode efficiency up to 95% for better energy savings

Easy Management

- The intuitive LCD display provides UPS status information with the ability to configure locally
- Supports multiple communication interfaces, including USB port, RS-232 port and Mini slot (option for mini SNMP, mini MODBUS and mini relay I/O card) for remote monitoring and configuration
- Battery self-test function ensures early detection of the battery status when batteries need to be replaced

Applicable Sectors







Industrial











Technical Specifications

Model		NX-1K	NX-2K	NX-3K			
Topology		Online double-conversion					
Power Rating		1 kVA	2 kVA	3 kVA			
J		0.9 kW	1.8 kW	2.7 kW			
INPUT			1.77				
Nominal Voltage		220/ 230 Vac, 1P2W+PE					
Voltage Range			20-180 Vac (with derating to 60-1009	% load)			
Frequency Range		40-70 Hz					
Power Factor		> 0.99 (100% load)					
Connection		IEC C14		IEC C20			
OUTPUT							
Nominal Voltage		208 ⁽¹⁾ / 220/ 230/ 240 Vac, 1	P2W+PF				
Voltage Regulation		±1%	211112				
Frequency		50/60 ± 3 Hz					
Total Harmonic Dist	ortion (THDv)	≤ 3% (linear load)					
Power Factor	ordon (TribV)	0.9					
Connection		IEC C13 x4		IEC C13 x4 + Terminal			
Overload Capability)%: 10 mins.; 111-130%: 30 secs; 131-				
Current Crest Ratio		3:1	770- 10 111110., 111 10070- 00 3000, 101	100% 0 0000			
EFFICIENCY							
		Lin to 00%					
Online Mode			Up to 90%				
ECO Mode		Op to 93%	Up to 95%				
BATTERY		VB. 4					
Battery Type		VRLA	40.44	70.44			
Nominal Voltage		24 Vdc	48 Vdc	72 Vdc			
Quantity	4000/ 1 1	2 pcs	4 pcs	6 pcs			
Runtime	100% Load	3.1 mins	3.3 mins	3.6 mins			
Ohanna Oumant	70% Load	6.1 mins	6.5 mins	6.9 mins			
Charge Current		I A	1 A				
COMMUNICATION	INTERFACE						
Display			LCD display with LED indicators				
Port			USB, RS-232, Mini slot				
Audible Alarm		Battery mode, Low battery,	Overload, Fault, Bypass mode				
PHYSICAL							
Dimensions (W x D :	x H)	145 x 282 x 220 mm	145 x 492 x 220 mm	190 x 421 x 318 mm			
Net Weight		9.2 kg	16.8 kg	27 kg			
Packing Dimensions	s (W x D x H)	230 x 360 x 325 mm	230 x 590 x 355 mm	320 x 560 x 460 mm			
Packing Weight		10.3 kg	18.6 kg	28.4 kg			
ENVIRONMENT							
Operating Temperat	ture	0 to 50 °C (40 to 50 °C de-r	ating to 70% load)				
Humidity		20-90% (non-condensing)					
Audible Noise ⁽²⁾		< 45 dBA	< 45 dBA				
Altitude		0-4000 m (derating 1%/100	m from 1000-4000 m)				
Storage Temperatur	re	-20 to 50 °C					
Ingress Protection L	evel	IP20					
CONFORMANCE							
Safety		CE, UKCA, TISI, RCM, KC					
EMC		IEC 62040-2					
Sustainability		DOHS DEACH	RoHS, REACH				

- (1) De-rating to 70% load
- (2) Audible noise test with UPS < 75% load at 25 °C in online mode
- All specifications are subject to change without prior notice.

N Series, Single-Phase 6/10 kVA

The Amplon N series 6-10 kVA UPS is a single-phase on-line UPS with pioneering technology that provides output power factor up to unity and AC-AC efficiency to a maximum 95%. Its remarkably compact dimensions reserve more room for critical equipment such as workstations, POSs, ATMs, office appliances, small server rooms, and production equipment. The Amplon N series superior features include a N+X parallel redundancy function and variable fan speed control to guarantee high system availability and best Total Cost of Ownership (TCO).



The Most Compact Design and Best TCO

- The smallest dimensions in its class saves significant space for more critical equipment
- A pioneer in unity power factor (kVA=kW) to maximize power availability
- The highest AC-AC efficiency up to 95% and efficiency of 98% in ECO mode for exceptional energy cost
- Automatic speed regulation function with multi-stage fan speed control to maximize system efficiency, significantly reduce audible noise, and prolong the service life of the fans

High Availability

- True online double-conversion topology and zero transfer time to battery to ensure high reliability
- Parallel configuration for expansion and N+X redundancy up to 4 units
- Advanced DSP (Digital Signal Processor) controller for fast computation capabilities and a simplified control circuit for enhanced stability
- Generator compatibility to ensure continuous and reliable power

Intelligent Management

- Excellent local communications through user-friendly LCD display and LED indicators
- Intelligent battery management to maximize battery performance and extend battery life
- Various types of communication interfaces for monitoring and manageability

Applicable Sectors











Industrial











Technical Specifications

Model	N-6K	N-10K
Topology	Online double-conversion	
Power Rating	6 kVA	10 kVA
Tower nating	6 kW	10 kW
Parallel Configuration	Up to 4 units	IO KW
INPUT	op to 4 units	
Nominal Voltage	200/ 208/ 220/ 230/ 240 Vac, 1F	22W+DF
Voltage Range ⁽¹⁾		95 Vac (with derating to 50-100% load)
	40-70 Hz	33 vac (with defating to 30-100% load)
Frequency Range Total Harmonic Distortion (THDi)	< 3%	
Power Factor	≥ 0.99 (100% load)	
Connection	Terminal	
	Terriiriai	
OUTPUT	000/000/000/000/040/	aw as
Nominal Voltage	200/ 208/ 220/ 230/ 240 Vac, 1P	'ZW+PE
Voltage Regulation	±1%	
Frequency	50/60 ± 0.5 Hz	
Total Harmonic Distortion (THDv)	< 2% (linear load); < 5% (non-line	ear load)
Power Factor	1	
Connection	Terminal	
Overload Capability	< 105%: continues; 105-125%: 2	mins; 126-150%: 30 secs
Current Crest Ratio	3:1	
EFFICIENCY		
Online Mode	Up to 95%	
Eco Mode	Up to 98%	
BATTERY		
Battery Type	VRLA	
Nominal Voltage	240 Vdc ⁽²⁾	
Quantity	16-22 pcs	
Charge Current	1.5-8 A (selectable)	
COMMUNICATION INTERFACE		
Display	LCD display with LED Indicators	
Port	USB, RS-232, Smart slot, REPO	
Audible Alarm		ery missing/replacement, Overload, Fault
Emergency Power Off	Yes	
PHYSICAL		
Dimensions (W x D x H)	190 x 390 x 325 mm	
Net Weight	10.1 kg	12.7 kg
Packing Dimensions (W x D x H)	300 x 500 x 443 mm	,g
Packing Weight	13 kg	15.2 kg
ENVIRONMENT	10 1.9	10.2 kg
Operating Temperature	0 to 55 °C (45 to 55 °C de-rating	to 80% load)
Humidity	5-95% (non-condensing)	j to 50% load)
Audible Noise	< 50 dBA	
Altitude	0-1000 m	
Storage Temperature	-15 to 55 °C	
Ingress Protection Level	IP20	
·	IPZU	
CONFORMANCE		
Safety	CE, UKCA, TISI, RCM, BIS, KC	
EMC	IEC 62040-2	
Sustainability	RoHS, REACH	

(1) 200/ 208 V: 176-280 Vac (90% load), 100-174 Vac (with derating to 40-90% load)

(2) KR model battery default voltage is 192 Vdc



RT Gen3 Series, Single-Phase 1/2/3 kVA

Delta's Amplon RT series UPS is a robust online double-conversion UPS offering strong power protection with a convertible rack and tower configuration in 2U size. With its clean output power in pure sine wave, RT Gen3 can handle a wide range of utility problems, from blackout to harmonic distortion. Rest assured that your device is always fortified and safeguarded with RT Gen3!



High Availability

- True online double-conversion topology and zero transfer time to battery mode
- Operates at up to 50°C adapting to various environments
- Excellent overload capacity allows the overload condition to continue within the timeframe

Green with Low TCO

- Output power factor 0.9 provides more capacity to load
- Up to 90% online mode efficiency and 95% ECO mode efficiency contributes to significant energy cost savings
- Capable of working in harsh electrical environments with a wide input voltage range to minimize battery usage

Easy Management

- Convertible rack and tower configuration with rotatable LCD screen
- LCD display and intuitive interface offer effortless monitoring and configuration
- Excellent local communications through rotatable LCD display
- Intelligent management software connectivity via RS-232, mini slot or USB port for remote monitoring and setting

Applicable Sectors











Transportation









Retail

Technical Specifications

Model			RT-1K	RT-2K	RT-3K		
Topology			Online double-conversion				
Power Rating			1 kVA	2 kVA	3 kVA		
J			0.9 kW	1.8 kW	2.7 kW		
INPUT			1	1-11			
Nominal Voltage			208 ⁽¹⁾ / 220/ 230/ 240 Vac, 1P2W+PE				
Voltage Range			180-280 Vac (100% load); 120-180	and 280-300 Vac (with derating to	50-100% load)		
Frequency Range			40-70 Hz				
Power Factor			≥ 0.99 (100% load)				
Connection			IEC C14		IEC C20		
OUTPUT							
Nominal Voltage			208 ⁽¹⁾ / 220/ 230/ 240 Vac, 1P2W+F	PE			
Voltage Regulation			±1%				
Frequency			50/60 ± 3 Hz				
Total Harmonic Distor	tion (THDv)		< 3% (linear load)				
Power Factor			0.9				
Connection			IEC C13 x4	IEC C13 x4 + IEC C19 x1			
Overload Capability			105-109%: 10 mins; 110-129%: 30 s	secs; 130-149%: 3 secs; ≥ 150%: 0.5	secs		
Current Crest Ratio			3:1				
EFFICIENCY							
Online Mode			88%		90%		
ECO Mode			93%	94%	95%		
BATTERY	BATTERY						
Battery Type			VRLA				
Nominal Voltage	Standard ⁽²⁾		24 Vdc	48 Vdc	72 Vdc		
	Extended ⁽²⁾		36 Vdc	72 Vdc			
Runtime	Standard	100% Load	3.1 mins	3.3 mins	3.5 mins		
		70% Load	6.1 mins	6.5 mins	6.9 mins		
Parallel Configuration	Extended		Up to 4 EBCs				
Charge Current	Standard		1 A				
	Extended		1/ 2/ 4/ 6 A (configurable)				
COMMUNICATION IN	TERFACE						
Display			LCD display with LED indicators				
Port			USB, RS-232, Mini slot (option for mini SNMP, mini MODBUS and mini relay I/O card)				
PHYSICAL							
Dimensions	Standard		438 x 310 x 86 mm	438 x 410 x 86 mm	438 x 630 x 86 mm		
(W x D x H)	Extended		438 x 310 x 86 mm	438 x 410 x 86 mm	438 x 460 x 86 mm		
Net Weight	Standard		10.6 kg	17.9 kg	26.6 kg		
	Extended		5.7 kg	8.4 kg	8.9 kg		
Packing Dimensions	Standard		600 x 500 x 240 mm	565 x 700 x 240 mm	600 x 760 x 240 mm		
(W x D x H)	Extended		600 x 500 x 240 mm	565 x 700 x 240 mm	545 x 760 x 240 mm		
Packing Weight	Standard		13.9 kg	22 kg	31.5 kg		
	Extended		9.4 kg	12.8 kg	13.3 kg		
ENVIRONMENT							
Operating Temperatur	re		0 to 50 °C (40 to 50 °C de-rating t	o 70% load)			
Humidity			10-90% (non-condensing)				
Audible Noise ⁽²⁾			≤ 50 dBA				
Altitude			0-3000 m (derating 1%/100 m from	n 2000-3000 m)			
Ingress Protection Lev	/el		IP20				
CONFORMANCE							
Safety			CE, UKCA, KC				
EMC			IEC 62040-2				
Sustainability			RoHS, REACH				

⁽¹⁾ De-rating to 70% load



⁽²⁾ Standard model: built-in batteries; Extended model: capability to add external battery packs

RT Pro Series, Single-Phase 1/2/3 kVA

Introducing Delta RT Pro UPS, a top-tier highperformance online double-conversion solution featuring industry-leading AC-AC efficiency, unity power factor, and superior flexibility, all in a compact 2U size. Engineered to safeguard your critical applications from diverse power challenges, RT Pro ensures a resilient power foundation, paving the way for continuous business success and growth!



Power More from Less

- Unity power factor (kVA=kW), provides maximum power for your facility
- Industry leading AC-AC efficiency up to 94.3% and ECO mode efficiency up to 99% offer significant energy cost savings
- Extends battery lifespan through reduced usage with wide 120-280V input range and a smart 3-stage battery charge mechanism

Superior Flexibility

- Two programmable outlets group for power-cycling and optimize battery runtime for most critical applications
- Easily scales for longer backup time with optional external battery pack
- REPO/ROO enables remote shutdown and restart during accidents to ensure safety
- Integrated dry-contacts with user-selectable definition
- Convertible rack and tower configuration with rotatable LCD screen

Easy Management

- CE and UL certified, streamlines global models and service management for multinational operations
- LCD display and intuitive interface offer effortless monitoring and configuration
- Intelligent management software connectivity via RS-232, USB, or mini slot port for remote monitoring and setting

Applicable Sectors













Transportation







Technical Specifications

Model		RT Pro-1K	RT Pro-2K	RT Pro-3K	
Гороlоду		Online double-conversion			
Power Rating		1 kVA	2 kVA	3 kVA	
J. Company		1 kW	2 kW	3 kW	
NPUT			I	'	
Nominal Voltage		200/ 208/ 220/ 230/ 240 Vac, 1P2	2W+PE		
Voltage Range		175-280 Vac (100% load); 120-175		6 load) ⁽¹⁾	
Frequency Range		40-70 Hz	, ,	·	
Power Factor		0.99 (100% load)			
Connection		IEC C14	IEC C20		
OUTPUT					
Nominal Voltage		200 ⁽²⁾ / 208 ⁽²⁾ / 220/ 230/ 240 Vac,	1P2W+PE		
Voltage Regulation		±3% (linear load)			
Frequency		50/60 ± 0.05 Hz			
Total Harmonic Distortion (THDv)		≤ 2% (linear load)			
Power Factor		1			
Connection		IEC C13 ×2, Programmable IEC C13 ×2 ×2 group		grammable IEC C13 x2 x2 groups	
Overload Capability		< 105% continuous; 105-125%: 1 r	nin ± 5 secs; 126-150%: 15 ± 3	secs; 151-155%: 0.1 secs	
Current Crest Ratio		3:1			
EFFICIENCY					
Online Mode		93.5%	94%	94.3%	
ECO Mode		99%			
BATTERY					
Battery Type		VRLA			
Nominal Voltage		24 Vdc	48 Vdc	72 Vdc	
Quantity		2 pcs	4 pcs	6 pcs	
Runtime	100% Load	2.4 mins	2.5 mins	2.7 mins	
	70% Load	4.6 mins	4.9 mins	5.2 mins	
Charge Current		Up to 2.5 A			
COMMUNICATION INTERFACE					
Display		LCD display with LED indicators			
Port		USB, RS-232, REPO, Mini Slot, Input dry contact x1, Output dry contact x3			
REPO (Emergency Power Off)		Standard			
PHYSICAL					
Dimensions (W x D x H)		440 x 335 x 88 mm	440 x 430 x 88 mm	440 x 565 x 88 mm	
Net Weight		11.7 kg	21 kg	28 kg	
Packing Dimensions (W x D x H)		484 x 579 x 220 mm	594 x 508 x 220 mm	605 x 1005 x 220 mm	
Packing Weight		18 kg	28.8 kg	38 kg	
ENVIRONMENT					
Operating Temperature		0 to 55 °C ⁽³⁾			
Humidity		5-95% (non-condensing)			
Audible Noise ⁽⁴⁾		< 40 dBA			
Altitude		0-3,000 m (derating 1%/100 m fro	m 1,000-3,000 m)		
ngress Protection Level		IP20			
CONFORMANCE					
		CE, UL, cUL, RCM, UKCA			
CONFORMANCE Safety EMC		CE, UL, cUL, RCM, UKCA IEC 62040-2			

- (1) 200/ 208 Vac: 160-280 Vac (100% load); 120-160 Vac (with derating to 70-100% load)
- (2) Derating to 90% load
- (3) 40 to 50 °C de-rating to 90% load; 50 to 55 °C de-rating to 75% load
- (4) ECO mode at front side 1 meter

All specifications are subject to change without prior notice.



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RT Series Single-Phase 5/6/8/10 kVA, Three-Phase 10/15/20 kVA

Introducing the Amplon RT Series 5-20 kVA UPS: Compact yet powerful, it provides a unity output power factor and top efficiency, with up to 96.5% AC-AC efficiency. It also features Li-ion battery compatibility for enhanced density and sustainability. With optional complete power solutions like the Maintenance Bypass Breaker and Rack Remote Power Panel integration, it ensures seamless operation for critical applications.



Efficiency and Reliability

- Best-in-class AC-AC efficiency of up to 96.5% and 99% in ECO mode for lower energy costs
- Wide input voltage range for operation in harsh environments and extended battery life
- AC-start function enables the UPS to switch on without battery connection
- Hot-swappable batteries for continuous operation during replacements

Availability and Flexibility

- Unity output power factor ensures no de-rating with loads
- Up to 4 units parallel capacity for redundancy and load expansion
- Programmable load bank disconnects non-critical loads during blackouts, saving battery power for critical loads
- VRLA and Li-ion External Battery Cabinet (EBC) for scalable runtime
- Extended Runtime models support flexible battery quantity, reducing maintenance costs
- The Power Distribution Box (PDB) and Maintenance Bypass Breaker (MBB) come standard with RT 5-10 kVA Standard Runtime models, simplifying configuration

Manageability

- User-friendly LCD display for excellent local management
- Intelligent battery management for extended life and maximum performance
- Free UPS management software and multiple communication interfaces ensure seamless remote monitoring and device protection

Applicable Sectors









Industrial





Transportation



Government







Technical Specifications

Model		RT-5K	RT-6K	RT-8K	RT-10K	RT-10K-3P	RT-15K-3P	RT-20K-3P
Topology		Online dou	ble-conversion	on				
Power Rating		5 kVA	6 kVA	8 kVA	10 kVA		15 kVA	20 kVA
3		5 kW	6 kW	8 kW	10 kW		15 kW	20 kW
Parallel Configuratio	n	Up to 4 un	its					
INPUT								
Nominal Voltage		200/ 208/	220/ 230/ 24	0 Vac 1P2W	+PF	380/ 400/ 415 Vac. 3F	PAW+PF	
Voltage Range					305-485 Vac (100% lo			
			ac (with derat		0% load)	138-305 Vac (with der		% load)
Frequency Range		40-70 Hz						
Total Harmonic Disto	ortion (THDi)	< 3%						
Power Factor		> 99% (100)% load)					
Connection		Input termi	nal			Input terminal x1, Bypa	ass input termina	l x1
OUTPUT								
Nominal Voltage		200/ 208/	220/ 230/ 24	0 Vac, 1P2W	+PE	380/ 400/ 415 Vac. 3F 220/ 230/ 240 Vac, 1P		
Voltage Regulation		±1%						
Frequency		50/60 ± 0.	05 Hz					
Total Harmonic Disto	ortion (THDv)	< 2% (linea	ır load); < 4%	(non-linear	load)			
Power Factor		1						
Connection	Standard ⁽²⁾	C13 x6, C19 Programma outlet x1	x2, Terminal x1 able C19	C13 x6, C19 Programma outlet x1	x4, Terminal x1 able C19	Terminal x1		
	Extended ⁽²⁾	Terminal x	I, Programma	ble terminal	x1			
Overload Capability		106-125%:	2 mins; 126-15	60%: 1 min; >	150%: 500 ms	106-125%: 2 mins; 126	6-150%: 30 secs;	> 150%: 200 ms
Current Crest Ratio		3:1						
EFFICIENCY								
Online Mode		Up to 95.5	%			Up to 96%	Up to 96.5%	
Eco Mode		Up to 99%						
BATTERY								
Battery Type		VRLA/ Lith	ium-ion					
Nominal Voltage	Standard	192 Vdc		240 Vdc		144(1) 100 004 1/1-	+144(1) +100 +	2004 1/4-
	Extended	144 ⁽¹⁾ , 192	-264 Vdc			144 ⁽¹⁾ , 192-264 Vdc	±144 ⁽¹⁾ , ±192-±	264 Vac
Charge Current	Standard	1 A (defaul	t), up to 8 A	1.5 A (defa	ult), up to 8 A	Harta O.A		
	Extended	Up to 8 A				Up to 8 A		
COMMUNICATION I	NTERFACE							
Display		Graphical I	.CD display w	ith LED indi	cators			
Port		USB, RS-4	85, Mini Slot,	REPO, Input	dry contact x	1, Output dry contact x3	3	
PHYSICAL								
Dimensions	Standard	440 x 665	x 176 mm	440 x 750	x 218 mm			
(W x D x H)	Extended		x 88.2 mm		x 88.2 mm	440 x 649 x 88.2 mm	440 x 760 x 88	.2 mm
Net Weight	Standard	54 kg		85.5 kg		10.01	201	00.5
-	Extended	10.9 kg		15.2 kg		16.6 kg	22 kg	22.5 kg
ENVIRONMENT						1		'
Operating Temperat	ure	0 to 55 °C	(45 to 55 °C	de-rating to	75% load)			
Humidity			n-condensing	_				
Audible Noise		< 48 dBA					< 54 dBA	
Altitude			(derating 1%/		1000-3000 m)		
Ingress Protection L	evel	IP20	. 3,					
CONFORMANCE								
Safety		CE LIKCA	UL/cUL, TISI,	RCM RIS F	SMI			
EMC		IEC 62040						
Performance		IEC 62040						
Sustainability			CH, Energy S	tar				
- Castaniability		INOTIO, INLA	ori, Linergy 3	CG1				



⁽²⁾ Standard model: built-in batteries; Extended model: capability to add external battery packs

Delta UPS – Modulon Family

Mini UPS, Three-Phase 15 kVA

Facing DC power challenges in a world dominated by AC-driven GPUs? Meet the 'Mini UPS', your solution. Our 15 kW system, with built-in 3 kW redundancy and a compact 6U design, is the key for cloud providers and edge data centers. Enjoy uninterrupted power seamlessly with our plug-and-play solution, addressing all your power concerns



Reliability

- Scalable power up to 15 kW plus 3 kW redundancy
- Hot swappable modular design minimizes MTTR
- Guaranteed premium quality and safety with UL-certified and UL 9540A lithium battery-endorsed solution

Cost Effectiveness

- Maximizes rack space with a 40% greater savings compared to competitors boasting the same rating
- Lithium battery ready: features 3 times longer lifespan with 10 times faster charging
- Maximizes savings on wiring, rPDU, and parallel bars tailored for decentralized data center requirements

User Friendly

- Plug-and-play outlet with individual output breakers for load protection
- Enjoy effortless remote monitoring and setup with the built-in SNMP
- Designed for both 400V and 480V power environments, providing global data centers with streamlined sourcing and service management
- Tool-free and hot-swappable design simplifies installation and maintenance

Applicable Sectors









Industrial



Transportation





Government

Technical Specifications

Model	Mini UPS-15K ⁽¹⁾			
Topology	Online double-conversion			
Power Module Rating	3 kW			
Frame Size	15 kW + 3 kW redudant			
INPUT				
Nominal Voltage	380/ 400/ 415/ 480 Vac, 3P4W+PE			
Voltage Range	338-528 Vac (100% load); 228-338 Vac (with derating to 60-100% load)			
Frequency Range	45-65 Hz			
Total Harmonic Distortion (THDi)	< 5%			
Power Factor	≥ 0.99 (100% load)			
Connection	Terminal Type C x2			
OUTPUT				
Nominal Voltage	220/ 230/ 240 Vac, 1P2W+PE			
Voltage Regulation	±1%			
Frequency	50/60 ± 0.5 Hz			
Total Harmonic Distortion (THDv)	< 3% (linear load); < 5% (non-linear load)			
Power Factor	1			
Connection	IEC C19 x5, NEMA L6-30R x1			
Overload Capability	< 110%: continues; 110-124%: 10 mins; 125-149%: 1 min			
Current Crest Ratio	3:1			
EFFICIENCY				
Online Mode	Up to 94.4%			
BATTERY				
Battery Type	Lithium-ion			
Nominal Voltage	42-56 Vdc			
Internal Battery Quantity	Up to 6 pcs (optional)			
Charge Current	Up to 12 A			
COMMUNICATION INTERFACE				
Display	LED Indicators			
Port	RS-485, Network port, Console			
Audible Alarm	Low battery, Battery over current, Overload, Fault, Over temperature			
Emergency Power Off	Yes			
PHYSICAL				
Dimensions (W x D x H)	440 x 802.2 x 261.7 mm			
Net Weight Frame	30.1 kg			
Per Power Module	3.9 kg			
Per Battery Module	6.6 kg			
ENVIRONMENT				
Operating Temperature	0 to 45 °C			
Humidity	10-90% (non-condensing)			
Altitude	0-3000 m (without derating)			
Storage Temperature	-20 to 60 °C			
Ingress Protection Level	IP20			
CONFORMANCE				
Safety	CE ⁽²⁾ , UL			
EMC	FCC Class A			
Sustainability	RoHS, REACH			

(1) The product launches in May 2024

(2) CE provide upon request

All specifications are subject to change without prior notice.



Delta UPS - Modulon Family

DPH Series, Three-Phase 20 - 80/120 kVA

In this IT intensive world with heavy data traffic driven by the cloud, 4G/5G and media streaming applications, IT managers are facing the challenges of increasing rack power density and limited data center space. Delta's innovative modular UPS technologies provide the answer to customers' demands for ultimate availability, excellent performance, and high efficiency. The brand-new Delta Modulon DPH series UPS 80/120 kVA provides exceptional power density of 20 kW per module in a 2U height, offering the smallest footprint and best space utilization. The Modulon DPH Series UPS is the ideal modular power protection for all critical IT applications with its small package, flexibility and seamless integration.



Excellent Power Performance

- High AC-AC efficiency over 96% and ECO mode to 99% resulting in marked energy cost savings
- Green mode featuring a load aggregation function optimizes system efficiency
- Up to 120 kW within all equipped breakers in 162.8 kW/m³ which supports top/bottom cable entry without an additional cabinet to achieve the best utilization compared with its peers

Ultimate Availability

- Fully modularized design and hot-swappable key modules ensure Mean Time To Repair (MTTR) is close to zero without downtime risk
- Redundant components and dual CAN bus delivers highest system availability and avoids single point of failure
- Key components aging pre-warning mechanism provides proactive reliability to minimize human error and reduce downtime risk (optional)

High Manageability

- User-friendly 10" color touch screen enables easy local UPS management
- Environment information such as temperature, humidity and transmitting signals from environment sensors can be integrated into the UPS for easy monitoring via the LCD of the UPS
- If the UPS is equipped with an external battery management system, the battery information can be integrated into the UPS and monitored via the LCD of the UPS

Applicable Sectors









Industrial



Transportation





Technical Specifications

Model		DPH-80K	DPH-120K		
Power Rating		20/ 40/ 60/ 80 kVA	20/ 40/ 60/ 80/ 100/ 120 kVA		
. orror riaming		20/ 40/ 60/ 80 kW	20/ 40/ 60/ 80/ 100/ 120 kW		
Frame Size		80 kW	120 kW		
Parallel Configuration	on	Up to 8 units	125 1111		
INPUT					
Nominal Voltage		380/ 400/ 415 Vac, 3P4W+PE			
Voltage Range		305-477 Vac (100% load); 228-305 Vac (with dera	ting to 70-100% load)		
Frequency Range		40-70 Hz	ting to 70 100% load)		
Total Harmonic Dist	tortion (THDi)	< 2%(1)			
Power Factor	tortion (TTIDI)	> 0.99 (100% load)			
OUTPUT		2 0.55 (100% load)			
		000/400/4457/ 00/4/4			
Nominal Voltage		380/ 400/ 415 Vac, 3P4W+PE			
Voltage Regulation		±1%			
Frequency	(7)	50/60 ± 0.05 Hz			
Total Harmonic Dist	tortion (THDv)	≤ 1% (linear load); ≤ 4% (non-linear load)			
Power Factor		1			
Overload Capability		≤ 125%: 10 mins; ≤ 150%: 1 min; > 150%: 1 sec			
Current Crest Ratio		3:1			
EFFICIENCY					
Online Mode		Up to 96.2%			
Eco Mode		Up to 99%			
BATTERY					
Battery Type		VRLA/ Vented lead-acid/ Lithium-ion			
Nominal Voltage		±180-±276 Vdc (configurable, ±240 Vdc default)			
Quantity		30-46 pcs (configurable)			
Maximum Charge C	current	32 A	48 A		
COMMUNICATION	INTERFACE				
Display		10-inch color touchscreen			
Port			/Console (RJ45), BMS (RS-485), Ethernet port x1, Input ttery temperature detection x4, External switch/breaker		
Protocols		SNMP, MODBUS RTU, MODBUS TCP/IP, HTTP(S),	SNTP, SMTP, Syslog, BOOTP, DHCP		
PHYSICAL					
Dimensions (W x D	x H)	600 x 850 x 1445 mm			
Net Weight	UPS System	150 kg	162 kg		
J	Per Power Module	18 kg	, ,		
ENVIRONMENT					
Operating Tempera	ture	0 to 40 °C			
Humidity		0-95% (non-condensing)			
Audible Noise		< 65 dBA	< 75 dBA		
Altitude		0-1000 m	. 5 45/1		
Storage Temperatur	re	-20 to 70 °C			
Ingress Protection L		IP20			
CONFORMANCE					
		CE LIVOA DOM BSMI			
Safety		CE, UKCA, RCM, BSMI			
EMC		IEC 62040-2			
Performance		IEC 62040-3			
Sustainability		RoHS, REACH			
FEATURES					
Standard		Burn-in test without load bank, Cold start function, Frequency conversion, Failure prediction			

(1) Input voltage total harmonic distortion < 1%



Delta UPS - Modulon Family

DPH Series, Three-Phase 20 - 80/200 kVA

Experience unmatched power solutions with our advanced 80K and 200K UPS models. The 80K is crafted to seamlessly integrate a battery in a 42U rack, and both models boast high power density, exceptional reliability, and fault tolerance—perfect for small and medium data centers. Enjoy exceptional energy efficiency with up to 96.5% AC-AC efficiency and an exclusive green mode, ensuring optimal system performance. Opt for our modular UPS for unparalleled flexibility that scales seamlessly with your growing business.



Low Total Cost of Ownership

- AC-AC efficiency up to 96.5% and Eco mode to 99% optimize energy costs
- Activate Green mode with a load aggregation function to boost system efficiency
- Remarkable power density of 50 kW per module in a 3U height (20 kW/2U height) offering best space utilization
- Unleash the on-site full-load and full-battery test. No need for load banks, no set-ups streamline the process and cut costs effectively

Maximum Uptime

- Redundant components and dual CAN bus deliver the highest system availability and thwart single point of
- Power and control modules self-synchronize to prevent downtime from control module failure
- Fully modularized design and hot swappable STS module, power module and controller card ensure minimizing Mean Time To Repair (MTTR)
- Integrated manual bypass eliminates maintenance-related downtime
- Pre-warning of key components aging reduces downtime risk (optional)

Easy Management

- Precisely meet your power backup needs now and unlock the ability to effortlessly scale up as your business
- Color 10" touchscreen provides easy access to UPS information and streamlined operation
- Intuitive LCD integrated UPS system, inbuilt battery and environment information are visible and easy to manage
- Built-in USB port provides effortless connectivity to over 10,000 data logs for event diagnosis

Applicable Sectors











Industrial





Transportation





Technical Specifications

Model		DPH-80K-FR	DPH-200K-FR			
Power Rating		20/ 40/ 60/ 80 kVA	50/ 100/ 150/ 200 kVA			
		20/ 40/ 60/ 80 kW	50/ 100/ 150/ 200 kW			
Frame Size		80 kW	200 kW			
Parallel Configura	ation	Up to 8 units				
INPUT						
Nominal Voltage		380/ 400/ 415 Vac, 3P4W+PE				
Voltage Range		305-477 Vac (100% load); 229-305 Vac (with derating to 70-100% load)				
Frequency Range		40-70 Hz				
Total Harmonic Di	istortion (THDi)	< 3%				
Power Factor		> 0.99 (100% load)				
OUTPUT						
Nominal Voltage		380/ 400/ 415 Vac, 3P4W+PE				
Voltage Regulatio	n	±1% (static)				
Frequency		50/60 ± 0.05 Hz				
Total Harmonic Di	istortion (THDv)	≤ 2% (linear load); ≤ 5% (non-linear load)				
Power Factor	,	1				
Overload Capabili	ity	≤ 125%: 10 mins; ≤ 150%: 1 min; > 150%: 1 sec				
Current Crest Rat	•	3:1				
EFFICIENCY						
Online Mode		Up to 96.5%				
Eco Mode		Up to 99%				
BATTERY						
Battery Type		VRLA/ Vented lead-acid/ Lithium-ion				
Nominal Voltage		±240 Vdc				
Quantity		40 pcs	30 ⁽¹⁾ -46 pcs (configurable)			
Maximum Charge	Current	32 A	75 A			
Internal Battery		Optional, up to 5 strings	N/A			
•	Cabinet (Optional)	Parallel to 4 cabinets ⁽²⁾	147.			
COMMUNICATION		. aransi to 1 submists				
Display	TT IIT TE III TO E	10-inch color touchscreen				
Port		MODBUS (RS-485) port, REPO, EMS/Console (RJ45), BMS (RS-485), Ethernet port x1, Input dry contact				
		x4, Output dry contact x6, External battery temper contact x4	rature detection x4, External switch/breaker status dry			
Protocols		SNMP, MODBUS RTU, MODBUS TCP/IP, HTTP(S),	SNTP, SMTP, Syslog, BOOTP, DHCP			
PHYSICAL						
Dimensions (W x	D x H)	600 x 1109 x 2000 mm				
Net Weight	UPS System	269 kg	275 kg			
	Per Power Module	18 kg	36.9 kg			
	Per Battery Module(2)	32.6 kg				
ENVIRONMENT						
Operating Temper	rature	0 to 40 °C				
Humidity		0-95% (non-condensing)				
Audible Noise		< 65 dBA	< 75 dBA			
Altitude		0-1000 m				
Ingress Protection Level		IP20				
CONFORMANCE						
Safety		CE, UKCA, RCM, BSMI				
EMC		IEC 62040-2				
Performance		IEC 62040-3				
Sustainability		RoHS, REACH				
FEATURES						
Standard			, Frequency conversion, Failure prediction, Software			
		Integration with Delta Lithium Battery BMS				

⁽¹⁾ Input voltage total harmonic distortion < 1%



⁽²⁾ Up to 10 battery strings per cabinet, featuring 40 pcs x12V 9Ah VRLA batteries each; 4 battery modules compose 1 string

Delta UPS - Modulon Family

DPH Series, Three-Phase 50 - 300/500/600 kVA

In this IT intensive world with heavy data traffic driven by cloud, 4G/5G and media streaming applications, IT managers are facing the challenges of increasing rack power density and limited data center space. Delta's innovative modular UPS technologies provide the answer to customers' demands for high power density, high power performance, and ultimate availability. The brand-new Delta Modulon DPH series UPS 50-300/500/600 kVA achieves the industry's leading power density of 50 kW per module, offering the smallest footprint and best space utilization. The Modulon DPH Series UPS is the ideal modular power protection for MW data centers to achieve total cost of ownership (TCO) optimization.



Excellent Power Performance

- The industry's leading power density per module at 50 kW in a 3U space, and the smallest footprint for 500 kVA in a single rack and 600 kVA in two racks, that achieves the best utilization compared with its peers
- High AC-AC efficiency up to 96.5% and ECO mode to 99% provide marked energy cost savings
- Green mode featuring a load aggregation function optimizes system efficiency

Ultimate Availability

- Fully modularized design and hot-swappable key modules ensure Mean Time To Repair (MTTR) close to zero without downtime risk
- Redundant components and dual CAN bus delivers highest system availability and avoids single point of failure
- Modular UPS grows with your business by parallel expansion up to 8 units for 4.8 MVA of total power capacity

High Manageability

- User-friendly 10" color touch screen enables easy local UPS management
- Environment information such as security, water, fire, and temperature can be integrated into the UPS for easy monitoring via the LCD of the UPS
- If the UPS is equipped with an external battery management system, the battery information can be integrated into the UPS and monitored via the LCD of the UPS

Applicable Sectors















Industrial Transportation

G

Governmen

Technical Specifications

Model		DPH-300K	DPH-500K	DPH-600K			
Power Rating		100/ 150/ 200/ 250/ 300 kVA	300/ 350/ 400/ 450/ 500 kVA	500/ 550/ 600 kVA			
		100/ 150/ 200/ 250/ 300 kW	300/ 350/ 400/ 450/ 450 kW	500/ 550/ 600 kW			
Frame Size		300 kW	450 kW	600 kW			
Parallel Configuration	١	Up to 8 units					
INPUT							
Nominal Voltage		380/ 400/ 415 Vac, 3P4W+PE					
Voltage Range		305-478 Vac (100% load); 229-3	05 (with derating to 70-100% load)				
Frequency Range		40-70 Hz	_				
Total Harmonic Disto	rtion (THDi)	< 3% ⁽¹⁾					
Power Factor		> 0.99 (100% load)					
Connection		Single or dual feed					
OUTPUT							
Nominal Voltage		380/ 400/ 415 Vac, 3P4W+PE					
Voltage Regulation		±1%					
Frequency		50/60 ± 0.05 Hz					
Total Harmonic Disto	rtion (THDv)	≤ 0.5% (linear load)					
Power Factor	,	1(2)					
Overload Capability		≤ 125%: 10 mins; ≤ 150%: 1 min; >	150%: 1 sec				
Current Crest Ratio		3:1					
EFFICIENCY							
Online Mode		Up tp 96.5%					
ECO Mode		Up to 99%					
BATTERY		Op 10 33%	op to 99%				
		VDLA/Vented lead acid/Likhirum iam					
Battery Type		VRLA/ Vented lead-acid/ Lithium-ion					
Nominal Voltage		±240 Vdc					
Quantity Maximum Charge Cu	rrant	30-46 pcs 90 A 135 A 180 A					
Maximum Charge Cu		90 A	135 A	180 A			
COMMUNICATION IN	NTERFACE						
Display		10-inch color touchscreen					
Port			EPO, Input dry contact x4, Ouput dry I switch/breaker status dry contact x4				
Protocols		SNMP, MODBUS RTU, MODBUS	TCP/IP, HTTP(S), SNTP, SMTP, Syslog	g, BOOTP, DHCP			
PHYSICAL							
Dimensions (W x D x	H)	600 x 1100 x 2000 mm		1200 x 1100 x 2000 mm			
Net Weight	UPS System	311 kg	317 kg	605 kg			
	Per Battery Module	36 kg					
ENVIRONMENT							
Operating Temperatu	ıre	0 to 40 °C					
Humidity		0-95% (non-condensing)					
Audible Noise		< 70 dBA	< 80 dBA	< 85 dBA			
Altitude		0-3000 m (derating 1%/100 m fro	m 1000-3000 m)				
Storage Temperature		-20 to 70 °C					
Ingress Protection Le	evel	IP20					
CONFORMANCE							
Safety		CE, UKCA					
EMC		IEC 62040-2					
Performance		IEC 62040-3					
Sustainability		RoHS, REACH					
FEATURES							
Standard			ckfeed protection, Burn-in test witho EPO), Frequency conversion, Failure p				
Optional		DC battery ground fault, Integrea	ted battery switch cabinet				
		, , , , , , , , , , , , , , , , , , , ,	,				

⁽¹⁾ When input vTHD < 1%



^{(2) 0.9} for the DPH-500K model

HPH Gen2 Series, Three-Phase 20/30/40 kVA

The HPH Gen2 20-40 kVA UPS offers a best in class footprint and high-level performance. With advanced technology and thermal management, it achieves the world's leading power density and promises 40°C without de-rating. The 0.99 input PF and iTHD < 2% ensure maximum upstream source compatibility. Low total cost of ownership is achieved by > 96% efficiency, energy recycle mode, wider battery quantity configuration and inbuilt 15 A charger. In addition, it provides a user-friendly interface touch panel, manual protection devices and caster wheels for easy deployment, installation and operation. All these features provide the ideal solution for various small and medium-sized data centers and critical power backups.



Easy Deployment and Maintenance with Compact Design

- Inbuilt casters for easy move-in, positioning and maintenance
- Inbuilt input/ bypass input/ output/ maintenance bypass breakers for completed distribution panel
- Slim design and smallest footprint (40 kW in 0.15 m²) to reduce wasted space

Low Total Cost of Ownership

- Wide battery quantity configuration (30-46 pcs) optimizes the battery solution
- High AC-AC efficiency over 96% and ECO mode to 99% provide marked energy cost savings
- Low input harmonic distortion (iTHD < 2%) is highly compatible with upstream of UPS power without additional filter or over sizing generator

High Manageability and Flexibility

- User-friendly 5-inch color touchscreen enables easy local UPS management
- Optional SNMP IPv6 and MODBUS communication cards for remote monitoring
- Inbuilt 15 A charger for long backup solution without additional cost
- Optional IP42 kit for harsh environment applications
- Front access and easy battery replacement for inbuilt battery models

Applicable Sectors















Technical Specifications

Model		HPH-20K	НРН-30К	HPH-40K			
Power Rating		20 kVA	30 kVA	40 kVA			
Described Overfreezentisch		20 kW	30 kW	40 kW			
Parallel Configuration	1	Up to 4 units					
INPUT							
Nominal Voltage		380/ 400/ 415 Vac, 3P4W+PE					
Voltage Range		305-478 Vac (100% load); 228-305	5 (with derating to 70-100% load)				
Frequency Range		40-70 Hz					
Total Harmonic Disto	rtion (THDi)	≤ 2.5%	≤ 2%				
Power Factor		> 0.99 (100% load)					
Connection		Single or dual feed					
OUTPUT							
Nominal Voltage		380/ 400/ 415 Vac, 3P4W+PE					
Voltage Regulation		±1%					
Frequency		50/60 ± 0.05 Hz					
Total Harmonic Disto	rtion (THDv)	≤ 1.5% (linear load); ≤ 4% (non-line	ar load)				
Power Factor		1					
Overload Capability		≤ 105%: continues; > 105-110%: 60	mins; > 110-≤ 125%: 10 mins; > 125-	≤ 150%: 1 min; > 150%: 1 sec			
Current Crest Ratio		3:1					
EFFICIENCY							
Online Mode		Up tp 96%					
ECO Mode		Up to 99%					
BATTERY							
Battery Type		VRLA/ SMF					
Nominal Voltage		±240 Vdc					
Quantity		30 ⁽¹⁾ -46 pcs					
Maximum Charge Cu	rrent	15 A					
COMMUNICATION IN	NTERFACE						
Display		LCD touchscreen					
Port		Mini Slot x2 ,USB x1, RS-232 x1, Inp dry contact x1	out dry contact x2, Output dry contact	ct x4, External battery temperature			
Protocols		SNMP, MODBUS TCP/IP, HTTP(S), SNTP, SMTP, BOOTP, DHCP, SSH, SFTP, FTP, Telnet, Syslog					
PHYSICAL		, , , , , , , , , , , , , , , , , , , ,					
Dimensions	External Battery Model	240 x 630 x 650 mm					
(W x D x H)	Integrated Battery Model	470 x 780 x 1200 mm					
Net Weight	External Battery Model	44 kg	50 kg				
· · · · · · · · · · · · · · · · · · ·	Integrated Battery Model		340 kg (with Battery)				
	, , , , , , , , , , , , , , , , , , , ,	94 kg (without Battery)	100 kg (without Battery)				
ENVIRONMENT		, , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·				
Operating Temperatu	ire	0 to 50 °C (40 to 50 °C de-rating to	90% load)				
Humidity		0-95% (non-condensing)	0 0070 1000,				
Audible Noise		< 50 dBA	< 56 dBA				
Altitude		0-2000 m (derating 1%/100 m from 1000-2000 m)					
Storage Temperature	2	-25 to 70 °C	1000 2000 1117				
Ingress Protection Le		IP20 (standard), IP42 (Optional for long backup model)					
CONFORMANCE	· · · ·						
		CE, UKCA, RCM					
Safety EMC		IEC 62040-2					
Performance Sustainability		IEC 62040-3					
Sustainability		RoHS, REACH					
FEATURES Standard		Packfood protoction Cold at the	nation Fraguency conversion				
Standard		Backfeed protection, Cold start fur					
Optional		Synchronized multiple bus (SMB), [Do pattery ground pault				

(1) 30-34 pcs required load derating

All specifications are subject to change without prior notice.



HPH Series, Three-Phase 60-120 kVA

Elevate your power game with the Ultron HPH UPS: unbeatable energy efficiency and superior performance for mission-critical applications and small data centers. Fully rated power, advanced IGBT topology, and Delta's digital PFC controls ensure uninterrupted power excellence. Unleash uncompromised power with the Delta HPH UPS!



Best-in-Class Power Performance and Efficiency

- Fully rated power (kVA=kW) for maximum power availability
- Leading AC-AC efficiency up to 96% saves energy costs
- Low harmonic pollution (iTHD < 3%) and high input power factor (> 0.99) reduce upstream investment costs

Assured Reliability

- Wide input voltage range allows the UPS to operate in harsh electrical environments and extends battery life
- DSP based technology enables a reduction in the number of electronic components to lower the failure rate
- Redundant auxiliary power and static switch control circuit* design prevents single point of failure
 (* Applied for HPH-100/120K)

Greater Flexibility

- A wide choice of configurations, such as N+X redundancy and hot stand-by
- Adjustable charging current and charging voltage meet different battery configuration requirements
- Flexible battery configuration optimizes battery investment

Superior Serviceability and Management

- Swappable interior architecture and front access servicing enables quick and easy maintenance
- · Multi-connectivity interface supports remote UPS monitoring and management

Applicable Sectors









Industrial



Transportation





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Governmer

Technical Specifications

Model	HPH-60K	HPH-80K	HPH-100K	HPH-120K				
Power Rating	60 kVA	80 kVA	100 kVA	120 kVA				
. c.ro. namig	60 kW	80 kW	100 kW	120 kW				
Parallel Configuration	Up to 4 units	1	100	125				
INPUT								
Nominal Voltage	380/ 400/ 415 Vac, 3P4W	+DF						
Voltage Range		332-477 Vac (100% load); 229-332 Vac (with derating to 63-100% load)						
Frequency Range	40-70 Hz	220 002 vao (with acratin	g to 00 100% loda,					
Total Harmonic Distortion (THDi)	< 3%							
Power Factor	> 0.99 (100% load)							
Short Circuit Withstand Rating	15 A	22 A						
OUTPUT		1						
Nominal Voltage	380/ 400/ 415 Vac, 3P4W	+DF						
Voltage Regulation	±1%	.,,,						
Frequency	50/60 ± 0.05 Hz							
Total Harmonic Distortion (THDv)	≤ 2% (linear load)							
Power Factor	1							
Overload Capability	≤ 125%: 10 mins; 126-1509	%: 1 min: > 150%: 1 sec						
Current Crest Ratio	3:1							
EFFICIENCY								
Online Mode	> 96%							
ECO Mode	Up to 99%							
BATTERY								
Battery Type	VRLA/ Lithium-ion							
Nominal Voltage	±240 Vdc							
Quantity	32-46 pcs ⁽¹⁾							
Charge Current	10 A	15 A	20 A					
Max. Charger Current with Optional Charger Board	20 A		40 A					
COMMUNICATION INTERFACE								
Display	LCD display with LED indic	cators						
Port			Charger detection port x1,	Input dry contact x2,				
			l battery temperature sensi					
Emergency Power Off	Yes							
PHYSICAL								
Dimensions (W x D x H)	520 x 800 x 1175 mm		520 x 800 x 1760 mm					
Net Weight	186.5 kg	191 kg	312 kg					
Packing Dimensions (W x D x H)	685 x 1003 x 1337 mm		720 x 994 x 1952 mm					
Packing Weight	220.5 kg	225 kg	388 kg					
ENVIRONMENT								
Operating Temperature	0 to 45 °C (40 to 45 °C wi	ith load derating)						
Humidity	5-95% (non-condensing)							
Audible Noise	< 65 dBA							
Altitude	0-1000 m (without deratin	ng)						
Storage Temperature	-20 to 50 °C							
Ingress Protection Level	IP20							
CONFORMANCE								
Safety	CE, UKCA							
EMC	IEC 62040-2							
Performance	IEC 62040-3							
Sustainability	RoHS, REACH							
FEATURES		_						
Standard		start function, Synchronize	ed multiple bus (SMB)					
Optional	Advanced power walk-in for generator, Dual input							

(1) 32-36 pcs require service setting and load derating



HPH Series, Three-Phase 160/200 kVA

The brand-new Ultron HPH series 160-200 kVA is a true online double-conversion UPS offering the best-in-class combination of power performance and efficiency for medium data centers, pan-IT, and other mission critical applications. The Ultron HPH features up to 96.5% AC-AC efficiency, low iTHD < 3%, and high input power factor > 0.99 resulting in significant total cost of ownership (TCO) savings. Highlights of the highly reliable Ultron HPH series UPS design include key component redundancy and proactive battery health detection. With its combination of superior availability and power performance, the Ultron HPH 160-200 kVA is the top choice for power protection of sustainable medium business operations.



Best-in-Class Power Performance and Efficiency

- High AC-AC efficiency of up to 96.5% and ECO mode to 99% for significant energy cost savings
- Low harmonic pollution (iTHD < 3%) and high input power factor (> 0.99) reduce upstream investment costs

Assured Availability

- Optional redundant controller supports dual CAN bus and ring connection for high system availability
- Proactive battery aging detection for high reliability
- Easy event log check via touch panel and firmware upgrade via USB port

Greater Flexibility

- Parallel expansion and redundancy up to 8 units, 1.6 MVA of total power capacity
- Flexible battery configuration for 30-46 pieces optimizes battery investment
- Supports either top or bottom cable entry in the single cabinet. The unique fixed symmetric terminal design avoids cable bending issues to enhance cable reliability

Superior Manageability

- · User-friendly 10-inch colored LCD with touch panel enables easy local UPS management
- Environment information such as security, water, fire and temperature can be integrated into the UPS for easy monitoring via the LCD of the UPS
- If the UPS features Delta's battery management system, the battery information integrates seamlessly for LCD monitoring

Applicable Sectors









Industrial



Transportation





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Technical Specifications

Madal	LIDIT 400K	HBH 2007
Model	HPH-160K	HPH-200K
Power Rating	160 kVA	200 kVA
	160 kW	200 kW
Parallel Configuration	Up to 8 units	
INPUT		
Nominal Voltage	380/ 400/ 415 Vac, 3P4W+PE	
Voltage Range	305-477 Vac (100% load); 228-305 Vac (with deratin	g to 70-100% load)
Frequency Range	40-70 Hz	
Total Harmonic Distortion (THDi)	≤ 3% ⁽¹⁾	
Power Factor	> 0.99 (100% load)	
Connection	Single or dual feed	
OUTPUT		
Nominal Voltage	380/ 400/ 415 Vac, 3P4W+PE	
Voltage Regulation	±1%	
Frequency	50/60 ± 0.05 Hz	
Total Harmonic Distortion (THDv)	≤ 0.5% (linear load)	
Power Factor	1	
Overload Capability	≤ 125%: 10 mins; ≤ 150%: 1 min; > 150%: 1 sec	
Current Crest Ratio	3:1	
EFFICIENCY		
Online Mode	Up to 96.5%	
Eco Mode	Up to 99%	
BATTERY		
Battery Type	VRLA	
Nominal Voltage	±240 Vdc	
Quantity	30-46 pcs	
Maximum Charge Current	45 A	60 A
COMMUNICATION INTERFACE		
Display	10-inch color touchscreen	
Port	MODBUS (RS-485), BMS (RS-485), EMS/Console (RJ Output dry contact x6, External battery temperature contact x4	
Protocols	SNMP, MODBUS RTU, MODBUS TCP/IP, HTTP(S), SN	TP, SMTP, Syslog, BOOTP, DHCP
PHYSICAL		
Dimensions (W x D x H)	600 x 1100 x 1600 mm	
Net Weight	340 kg	376 kg
ENVIRONMENT		
Operating Temperature	0 to 40 °C	
Humidity	0-95% (non-condensing)	
Audible Noise	< 70 dBA	
Altitude	0-1000 m	
Storage Temperature	-25 to 70 °C	-20 to 70 °C
Ingress Protection Level	IP20	
CONFORMANCE		
Safety	CE, UKCA, RCM	
EMC	IEC 62040-2	
Performance	IEC 62040-3	
Sustainability	RoHS, REACH	
FEATURES	,	
Standard	Backfeed protection, Cold start function, Frequency	conversion
Optional	Synchronized multiple bus (SMB), DC battery ground	
	, , , , , , , , , , , , , , , , , , ,	

(1) When input vTHD < 1%

All specifications are subject to change without prior notice.

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NT Series, Three-Phase 20-500 kVA

The Ultron NT series is a three phase UPS featuring customized I/P-O/P ratings for various applications. With N+X parallel redundancy or expansion, it guarantees high availability and reliability for your critical loads.

The Ultron NT series offers continued seamless protection for your business even under 100% unbalanced loading conditions. Its economy mode improves efficiency and saves operating cost.



Availability

- Available from 20 to 4,000 kVA (8 x 500 kVA in parallel)
- Parallel redundancy without requiring extra hardware to increase reliability
- Optional harmonic filter and 12-pulse rectifier
- Redundant auxiliary power and control circuit ensures higher reliability
- Inbuilt maintenance and static bypass switch

Flexibility

- Multi-language LCD display and LED status indicators
- RS-232, RS-485 and six programmable dry contact outputs
- Compatible with generator installation and unbalanced loads
- Optional external battery cabinet for longer backup time

Low Total Cost Of Ownership

- Parallel expansion as your business grows and consequently saves initial investment
- Wide input voltage range extends battery lifetime
- ECO mode saves energy and operating cost
- · Common battery installation saves initial investment

Applicable Sectors





Telecom





Industrial











Technical Specifications

Model	NT-	20K	30K	40K	50K	60K	80K	100K	120K	160K	200K	260K	320K	400K	500K
Power Rating	kVA	20	30	40	50	60	80	100	120	160	200	260	320	400	500
	kW	18	24	32	40	48	64	80	96	128	160	208	256	320	400
Parallel Configuration		Up to 8	3 units												
INPUT															
Nominal Voltage		380/4	00/ 415	Vac, 3	P4W+P	E									
Voltage Range		305-49	99 Vac	(100% I	oad)										
Frequency Range		45-65	Hz												
Total Harmonic Distortion (THDi)		< 3% ⁽¹⁾													
Connection		Single	or dual	feed											
OUTPUT															
Nominal Voltage		380/4	00/ 415	Vac, 3	P4W+P	E									
Voltage Regulation		±1%													
Frequency		50/60	± 0.01 H	Ηz											
Total Harmonic Distortion (THDv)			inear lo	ad)											
Power Factor		0.8(2)													
Overload Capability			: 60 mi	ns; 111-	125%: 1	0 mins;	126-150	0%: 1 mi	n						
Current Crest Ratio		3:1													
EFFICIENCY															
Online Mode		90%	91%		91.5%		92%		92.5%						93%
ECO Mode		> 97%	Up to	97.5%											
BATTERY															
Battery Type		VRLA													
Nominal Voltage		393 Vc													
Quantity		29 pcs													
Charge Current		4 A	5 A	7 A	9 A	11 A	14 A	18 A	22 A	29 A	36 A	30 A	35 A	40 A	
COMMUNICATION INTERFACE															
Display					Indicat										
Port										Ethernet					
Protocols		SNMP,	MODB	JS TCP	P/IP, HT1	ΓP(S), S	NTP, SN	MTP, Sy	slog, BO	OTP, DI	HCP, SSI	H, SFTP	, FTP, T	elnet	
PHYSICAL															
Dimensions (W x D x H)	mm	600 x 8	300 x 1	100				800 x 1700	830 x	1200 x 1700	(830 x	1600 >	(995 x ⁻	1950	1900 ⁽³⁾ x 995 x 1950
Net Weight	kg	365		425	460	506	525	700	745	1050	1085	1680	1720	1920	3110 ⁽³⁾
ENVIRONMENT															
Operating Temperature		0 to 40	°C (w	ithout c	derating)									
Humidity		0-95%	(non-c	ondens	ing)										
Audible Noise	dBA	≤ 60		≤ 65						≤ 68		≤ 72			≤ 77
Altitude		0-2000	m (wit	hout de	erating)										
Ingress Protection Level		IP20													
CONFORMANCE															
Safety		CE													
EMC		IEC 62	040-2												
Sustainability		RoHS,	REACH												
FEATURES															
Standard		DC Bat													
Optional		Seque	ntial sta	rt-up fo	or gener	ator, Co	old start	functio	n, Frequ	iency co	onversio	n			

- (1) With optional power filter, full load
- (2) Options tailored for models with an output power factor of 0.9
- (3) The 500 kVA model comprises two cabinets: Inverter (1100 mm width, 1760 kg) and Rectifier (800 mm width, 1350 kg)

DPS Series, Three-Phase 300-1200 kVA

Delta's superior Ultron DPS series 300-1200 kVA UPS supports unity output power factor to deliver up to 9.6 MW power capacity to meet the demands of large data centers and colocations. The Ultron DPS series guarantees the highest level of system reliability by supporting selfdetection of key components with pre-warning function, multi-layered redundancy design, and complete power rating coverage. Along with optional battery management software, the DPS series enables users to achieve predictive maintenance and minimize system downtime, while lowering the total cost of ownership (TCO).



Ultimate Availability

- Supports up to 9.6 MW power capacity with parallel redundancy and expansion up to 8 units
- · Redundant components and dual CAN bus ensures system availability
- Proactive detection of key component status for early diagnosis of UPS malfunction
- · Intelligent battery health diagnosis enables better battery maintenance and replacement
- · Advanced event analysis, including 10,000 event logs, waveform capturing and key parameters recording, to detect UPS abnormality and ensure higher availability

Excellent Performance

- The industry's leading power density and smallest footprint with the design of both top/bottom cable entry* and inbuilt switches (* For DPS-300K, only top cable entry is available)
- Unity output power factor guarantees no-rating and provides 100% kW
- AC-AC efficiency of up to 96.5% and 99% in ECO mode provides marked energy cost savings
- Supports both VRLA and environment-friendly Li-ion batteries

Sophisticated Manageability and Flexibility

- Environment information, such as security, water, fire, and temperature can be integrated and monitored via the LCD panel of the UPS
- If the UPS is equipped with an external battery management system, the battery information can be integrated and monitored via the LCD panel of the UPS
- Flexible battery quantity of 30-46 pcs achieves optimal battery investment

Applicable Sectors















Technical Specifications

Model	DPS-300K	DPS-400K	DPS-500K	DPS-600K	DPS-800K	DPS-1000K	DPS-1200K		
Power Rating	300 kVA	400 kVA	500 kVA	600 kVA	800 kVA	1000 kVA	1200 kVA		
	300 kW	400 kW	500 kW	600 kW	800 kW	1000 kW	1200 kW		
Parallel Configuration	Up to 8 units								
INPUT									
Nominal Voltage	380/ 400/ 41	380/ 400/ 415 Vac, 3P4W+PE							
Voltage Range	305 ⁽¹⁾ -477 (10	00% load); 229-	-305 (with derat	ting to 70-100%	load)				
Frequency Range	40-70 Hz								
Total Harmonic Distortion (THDi)	< 3% (linear lo	oad); < 5% (non	-linear load)						
Power Factor	> 0.99 (100%	load)							
Short Circuit Withstand Rating	65 kA				100 kA				
Connection	Single or dual	feed							
OUTPUT									
Nominal Voltage	380/ 400/ 41	5 Vac, 3P4W+P	E						
Voltage Regulation	±1%								
Frequency	50/60 ± 0.05	Hz							
Total Harmonic Distortion (THDv)	< 1.5% (linear	load); < 5% (no	n-linear load)						
Power Factor	1								
Overload Capability	≤ 125%: 10 mi	ins; ≤ 150%: 1 m	nin; > 150%: 1 se	ec					
Current Crest Ratio	3:1								
EFFICIENCY									
Online Mode	Up tp 96.5%								
ECO Mode	Up to 99%								
BATTERY									
Battery Type	VRLA/ Vented	l lead-acid/ Lith	nium-ion						
Nominal Voltage	480 Vdc								
Quantity	30-46 pcs								
Maximum Charge Current	90 A	120 A	150 A	180 A	240 A	300 A	360 A		
COMMUNICATION INTERFACE		'	'	'	'		1		
Display	10-inch color	touchscreen							
		-485), Smart sl	ot, REPO, Inpuit	dry contact x4,	Output dry cont		switch/breake		
Port			nal battery temp	erature detection	on x4, Ethernet p	oort, BMS (RS-4			
Protocols	status dry cor Console (RJ4	5)							
	status dry cor Console (RJ4	5)			on x4, Ethernet p				
Protocols PHYSICAL	status dry con Console (RJ4	5)	BUS TCP/IP, HT				185), EMS/		
Protocols PHYSICAL Dimensions (W x D x H)	status dry cor Console (RJ4 SNMP, MODB	5) SUS RTU, MODE	BUS TCP/IP, HT		1TP, Syslog, BOO	TP, DHCP	185), EMS/		
Protocols PHYSICAL Dimensions (W x D x H) Net Weight	status dry cor Console (RJ4 SNMP, MODB 600 ⁽²⁾ x 900 x 2000 mm	5) SUS RTU, MODE 1200 ⁽²⁾ x 900	BUS TCP/IP, HT	TP(S), SNTP, SM	1800 x 900 x 2000 mm	2450 x 900 x	2000 mm		
Protocols PHYSICAL Dimensions (W x D x H) Net Weight ENVIRONMENT	status dry cor Console (RJ4 SNMP, MODB 600 ⁽²⁾ x 900 x 2000 mm	5) SUS RTU, MODE 1200 ⁽²⁾ x 900	BUS TCP/IP, HT	TP(S), SNTP, SM	1800 x 900 x 2000 mm	2450 x 900 x	2000 mm		
Protocols PHYSICAL Dimensions (W x D x H) Net Weight ENVIRONMENT Operating Temperature	status dry cor Console (RJ4 SNMP, MODB 600 ⁽²⁾ x 900 x 2000 mm 515 kg	5) IUS RTU, MODE 1200 ⁽²⁾ x 900 700 kg	BUS TCP/IP, HT	TP(S), SNTP, SM	1800 x 900 x 2000 mm	2450 x 900 x	2000 mm		
Protocols	status dry cor Console (RJ4 SNMP, MODB 600 ⁽²⁾ x 900 x 2000 mm 515 kg	5) IUS RTU, MODE 1200 ⁽²⁾ x 900 700 kg	BUS TCP/IP, HT	TP(S), SNTP, SM	1800 x 900 x 2000 mm	2450 x 900 x	2000 mm		
Protocols PHYSICAL Dimensions (W x D x H) Net Weight ENVIRONMENT Operating Temperature Humidity	status dry cor Console (RJ4 SNMP, MODB 600 ⁽²⁾ x 900 x 2000 mm 515 kg 0 to 40 °C 0-95% (non-colored)	5) US RTU, MODE 1200 ⁽²⁾ x 900 700 kg	BUS TCP/IP, HT	TP(S), SNTP, SM	1800 x 900 x 2000 mm	2450 x 900 x	2000 mm		
Protocols PHYSICAL Dimensions (W x D x H) Net Weight ENVIRONMENT Operating Temperature Humidity Audible Noise	status dry cor Console (RJ4 SNMP, MODB 600 ⁽²⁾ x 900 x 2000 mm 515 kg 0 to 40 °C 0-95% (non-colored)	5) US RTU, MODE 1200 ⁽²⁾ x 900 700 kg	8US TCP/IP, HT	TP(S), SNTP, SM	1800 x 900 x 2000 mm	2450 x 900 x	2000 mm		
Protocols PHYSICAL Dimensions (W x D x H) Net Weight ENVIRONMENT Operating Temperature Humidity Audible Noise Altitude	status dry cor Console (RJ4 SNMP, MODB 600 ⁽²⁾ x 900 x 2000 mm 515 kg 0 to 40 °C 0-95% (non-core < 80 dBA 0-3000 m (decored)	5) US RTU, MODE 1200 ⁽²⁾ x 900 700 kg	8US TCP/IP, HT	TP(S), SNTP, SM	1800 x 900 x 2000 mm	2450 x 900 x	2000 mm		
Protocols PHYSICAL Dimensions (W x D x H) Net Weight ENVIRONMENT Operating Temperature Humidity Audible Noise Altitude Storage Temperature	status dry cor Console (RJ4 SNMP, MODB 600 ⁽²⁾ x 900 x 2000 mm 515 kg 0 to 40 °C 0-95% (non-o < 80 dBA 0-3000 m (de -25 to 70 °C	5) US RTU, MODE 1200 ⁽²⁾ x 900 700 kg	8US TCP/IP, HT	TP(S), SNTP, SM	1800 x 900 x 2000 mm	2450 x 900 x	2000 mm		
Protocols PHYSICAL Dimensions (W x D x H) Net Weight ENVIRONMENT Operating Temperature Humidity Audible Noise Altitude Storage Temperature Ingress Protection Level	status dry cor Console (RJ4 SNMP, MODB 600 ⁽²⁾ x 900 x 2000 mm 515 kg 0 to 40 °C 0-95% (non-o < 80 dBA 0-3000 m (de -25 to 70 °C	5) US RTU, MODE 1200 ⁽²⁾ x 900 700 kg	8US TCP/IP, HT	TP(S), SNTP, SM	1800 x 900 x 2000 mm	2450 x 900 x	2000 mm		
Protocols PHYSICAL Dimensions (W x D x H) Net Weight ENVIRONMENT Operating Temperature Humidity Audible Noise Altitude Storage Temperature Ingress Protection Level CONFORMANCE	status dry cor Console (RJ4 SNMP, MODB 600(2) x 900 x 2000 mm 515 kg 0 to 40 °C 0-95% (non-c < 80 dBA 0-3000 m (de -25 to 70 °C IP20	5) US RTU, MODE 1200 ⁽²⁾ x 900 700 kg	8US TCP/IP, HT	TP(S), SNTP, SM	1800 x 900 x 2000 mm	2450 x 900 x	2000 mm		
Protocols PHYSICAL Dimensions (W x D x H) Net Weight ENVIRONMENT Operating Temperature Humidity Audible Noise Altitude Storage Temperature Ingress Protection Level CONFORMANCE Safety	status dry cor Console (RJ4 SNMP, MODB 600(2) x 900 x 2000 mm 515 kg 0 to 40 °C 0-95% (non-c < 80 dBA 0-3000 m (de -25 to 70 °C IP20	5) US RTU, MODE 1200 ⁽²⁾ x 900 700 kg	8US TCP/IP, HT	TP(S), SNTP, SM	1800 x 900 x 2000 mm	2450 x 900 x	2000 mm		
Protocols PHYSICAL Dimensions (W x D x H) Net Weight ENVIRONMENT Operating Temperature Humidity Audible Noise Altitude Storage Temperature Ingress Protection Level CONFORMANCE Safety EMC Performance	status dry cor Console (RJ4 SNMP, MODB 600 ⁽²⁾ x 900 x 2000 mm 515 kg 0 to 40 °C 0-95% (non-consoleration) < 80 dBA 0-3000 m (deconsoleration) CE, UKCA IEC 62040-2	5) EUS RTU, MODE 1200 ⁽²⁾ x 900 700 kg condensing) erating 1%/100 r	8US TCP/IP, HT	TP(S), SNTP, SM	1800 x 900 x 2000 mm	2450 x 900 x	2000 mm		
Protocols PHYSICAL Dimensions (W x D x H) Net Weight ENVIRONMENT Operating Temperature Humidity Audible Noise Altitude Storage Temperature Ingress Protection Level CONFORMANCE Safety EMC	status dry cor Console (RJ4 SNMP, MODB 600(2) x 900 x 2000 mm 515 kg 0 to 40 °C 0-95% (non-o < 80 dBA 0-3000 m (de -25 to 70 °C IP20 CE, UKCA IEC 62040-2 IEC 62040-3	5) EUS RTU, MODE 1200 ⁽²⁾ x 900 700 kg condensing) erating 1%/100 r	8US TCP/IP, HT	TP(S), SNTP, SM	1800 x 900 x 2000 mm	2450 x 900 x	2000 mm		
Protocols PHYSICAL Dimensions (W x D x H) Net Weight ENVIRONMENT Operating Temperature Humidity Audible Noise Altitude Storage Temperature Ingress Protection Level CONFORMANCE Safety EMC Performance Sustainability	status dry cor Console (RJ4 SNMP, MODB 600(2) x 900 x 2000 mm 515 kg 0 to 40 °C 0-95% (non-o < 80 dBA 0-3000 m (de -25 to 70 °C IP20 CE, UKCA IEC 62040-2 IEC 62040-3 RoHS, REACH	SUS RTU, MODE 1200 ⁽²⁾ x 900 700 kg condensing) erating 1%/100 r	BUS TCP/IP, HTT x 2000 mm 811 kg m from 1000-30	PP(S), SNTP, SM 970 kg 900 m)	1800 x 900 x 2000 mm	2450 x 900 x 1850 kg	2000 mm 2000 kg		

- (1) 305-324 Vac with conditional application
- (2) The width of the UPS includes 4 built-in switches



DPM Gen2 Series, Three-Phase 250-1750 kVA

Selected by leading global cloud providers, Delta's DPM Gen2 introduces advanced features for enhanced efficiency and reliability. This includes OPEX savings with up to 97.3% AC-AC efficiency and improved grid stability. Synchronized Multiple Bus (SMB) and parallel scalability ensures flawless reliability, making it the ideal solution for fortified hyperscale data centers.



OPEX Savings

- AC-AC efficiency up to 97.3%, efficiency optimization at light loads saves energy costs
- Clean mode (voltage independent mode) up to 99% efficient guarantees the optimum power condition while maintaining the highest level of efficiency
- Optimizes energy cost with off-peak charging, avoiding peak-time expense
- Elevates grid stability through responsive demand reduction and fast frequency regulation, triggers upon utility requests for eligible bill subsidies

Impeccable Reliability

- Assures smooth power transitions with integrated Synchronized Multiple Bus (SMB), minimizing transformer inrush currents and maintaining balanced power from dual sources
- Parallels up to 8 units for redundancy or expansion, supported by N+1 internal redundancy in power modular configuration
- Maximizes UPS performance and lifespan with self-diagnosis and key component analysis

Ultimate Availability

- Lithium-ion battery ready. Adjustable battery charging voltage adapts to multiple types of batteries
- Seamless power shifts to generator with an advance power walk-in function, pausing during frequency issues for smooth transitions without unnecessary generator sizing expansion
- Grid interactive application. Provides corrective operation for unstable renewal energy sources with an innovative topology design that handles grid and battery power at the same time
- Easy mounting/cabling that supports both top and bottom cable entry and full front access

Applicable Sectors















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Technical Specifications

Model DPM G2	- 250K	500K ⁽¹⁾	750K ⁽¹⁾	1000K	1250K	1500K ⁽¹⁾	1750K ⁽¹⁾	
Power Rating	250 kVA	500 kVA	750 kVA	1000 kVA	1250 kVA	1500 kVA	1750 kVA	
	250 kW	500 kW	750 kW	1000 kW	1250 kW	1500 kW	1750 kW	
Parallel Configuration	Up to 8 units			'				
INPUT								
Nominal Voltage	380/ 400/ 415	80/ 400/ 415 Vac, 3P3W+PE or 3P4W+PE						
Voltage Range	323-477 Vac	(100% load)						
Frequency Range	40-70 Hz							
Total Harmonic Distortion (THDi)	< 3% (100% re	esistive load)						
Power Factor	> 0.99 (100%	load)						
Short Circuit Withstand Current	65 kA			100 kA				
Connection	Single or dual	feed						
оитрит								
Nominal Voltage	380/ 400/ 415	Vac, 3P3W+PI	E or 3P4W+PE					
/oltage Regulation	±1% (static)							
Frequency	50/60 ± 0.05	Hz						
Fotal Harmonic Distortion (THDv)	< 1% (linear lo	ad)						
Overload Capability	< 110%: contir	nues; 110-125%	: 10 mins; 126-	150%: 1 min; > 150	0%: 1 sec			
Current Crest Ratio	3:1							
EFFICIENCY								
Online Mode	Up tp 97.3%							
Clean Mode (VI)	Up to 99%							
BATTERY								
Battery Type	VRI A/ Vented	lead-acid/ Lith	nium-ion/ Ni-7ii	nc				
Nominal Voltage	480 Vdc	rodd dord, Erm	, 2					
Quantity		16 pcs (VRLA 12	2 V)					
Charge Current	125 A	250 A	375 A	500 A	625 A	750 A	875 A	
Protection Design				etection x4, Batte				
COMMUNICATION INTERFACE		, , ,		,	,	,		
Display	10-inch color	touchscreen						
Port			485) port x1 R	EPO port x1, Inpu	t dry contact x6	S Output dry c	ontact x6	
				er status detectio				
Protocols	SNMP, MODB	US RTU, MODB	SUS TCP/IP, HT	TP(S), SNTP, SM	ΓΡ, BOOTP, DHO	CP		
PHYSICAL								
Dimensions (W x D x H)	1030 x 990 x	*(3)		3070 x 990 x	3400 x 900 x	*(3)		
	2000 mm			2000 mm	2000 mm			
Net Weight	676 kg	*(3)		2408 kg	2779 kg	*(3)		
NVIRONMENT								
Operating Temperature	0 to 40 °C							
Humidity	0-95% (non-c	ondensing)						
Audible Noise	< 78 dBA	*(3)		< 84 dBA	< 85 dBA	*(3)		
Altitude	0-2000 m (de	rating 1%/100 n	n from 1001-20	000 m)				
ngress Protection Level	IP20							
CONFORMANCE								
Safety	IEC 62040-1,	CE, UKCA						
EMC	IEC 62040-2							
Performance	IEC 62040-3							
Sustainability	RoHS, REACH	, Energy Star						
FEATURES								
Standard		ction, Synchror		feed protection wous (SMB), Freque				
Optional	Advance failu	re prediction, G		Software integra vitch cabinet, IR s		ithium battery	BMS, DC batte	

⁽¹⁾ Upcoming product



^{(2) 34-35} pcs require service setting and load derating

⁽³⁾ To be released

DPM Gen2 Series, Three-Phase 300-2100 kVA

Selected by leading global cloud providers, Delta's DPM Gen2 introduces advanced features for enhanced efficiency and reliability. This includes OPEX savings with up to 97.5% AC-AC efficiency and improved grid stability. Synchronized Multiple Bus (SMB) and parallel scalability ensures flawless reliability, making it the ideal solution for fortified hyperscale data centers.



OPEX Savings

- AC-AC efficiency up to 97.5%, efficiency optimization at light loads saves energy costs
- Clean mode (voltage independent mode) up to 99.2% efficient guarantees the optimum power condition while maintaining the highest level of efficiency
- Optimizes energy cost with off-peak charging, avoiding peak-time expense
- Elevates grid stability through responsive demand reduction and fast frequency regulation, triggers upon utility requests for eligible bill subsidies

Impeccable Reliability

- Assures smooth power transitions with integrated Synchronized Multiple Bus (SMB), minimizing transformer inrush currents and maintaining balanced power from dual sources
- Parallels up to 8 units for redundancy or expansion, supported by N+1 internal redundancy in power modular
- Maximizes UPS performance and lifespan with self-diagnosis and key component analysis

Ultimate Availability

- Lithium-ion battery ready. Adjustable battery charging voltage adapts to multiple types of batteries
- Seamless power shifts to generator with an advance power walk-in function, pausing during frequency issues for smooth transitions without unnecessary generator sizing expansion
- · Grid interactive application. Provides corrective operation for unstable renewal energy sources with an innovative topology design that handles grid and battery power at the same time
- Easy mounting/cabling that supports both top and bottom cable entry and full front access

Applicable Sectors















Technical Specifications

Model DPM G2-	300K ⁽¹⁾	600K ⁽¹⁾	900K ⁽¹⁾	1200K	1500K	1800K ⁽¹⁾	2100K ⁽¹⁾
Power Rating	300 kVA	600 kVA	900 kVA	1200 kVA	1500 kVA	1800 kVA	2100 kVA
_	300 kW	600 kW	900 kW	1200 kW	1500 kW	1800 kW	2100 kW
Parallel Configuration	Up to 8 units	1				'	
INPUT							
Nominal Voltage	480 Vac, 3P3	3W+PE					
Voltage Range	408-552 Vac						
Frequency Range	40-70 Hz						
Total Harmonic Distortion (THDi)	< 3% (100% r	esistive load)					
Power Factor	> 0.99 (100%	6 load)					
Short Circuit Withstand Current	65 kA			100 kA			
Connection	Single or dua	I feed					
OUTPUT							
Nominal Voltage	480 Vac, 3P3	3W+PE					
Voltage Regulation	±1% (static)						
Frequency	50/60 ± 0.05	Hz					
Total Harmonic Distortion (THDv)	< 1% (linear lo	oad)					
Overload Capability	< 110%: conti	nues; 110-1259	%: 10 mins; 126-	150%: 1 min; > 15	0%: 1 sec		
Current Crest Ratio	3:1	•	,	•			
EFFICIENCY							
Online Mode	Up tp 97.5%						
Clean Mode (VI)	Up to 99.2%						
BATTERY	op to 00.270						
Battery Type	V/DL A / V/opto/	d load-acid/ Lit	:hium-ion/ Ni-Zii	200			
Nominal Voltage	480 Vdc	u leau-aciu/ Lit	.IIIuIII-1011/ 141-211	TIC .			
Quantity		46 pcs (VRLA	12 \/)				
Charge Current	125 A	250 A	375 A	500 A	625 A	750 A	875 A
Protection Design				letection x4, Batte			
COMMUNICATION INTERFACE	Buttery Shari	t trip x1, butter	y temperature o	etection x4, batt	cry breaker st	atus di y contac	
	10-inch color	touchsoroon					
Display Port			-19E) port v1 F	REPO port x1, Inpu	ıt dry contact	ve Output dry	contact v6
Port				er status detection			
Protocols	SNMP, MODE	BUS RTU, MOD	BUS TCP/IP, HT	TP(S), SNTP, SM	TP, BOOTP, DI	HCP	
PHYSICAL							
Dimensions (W x D x H)	1030 x 990 x	*(3)		3070 x 990 x	3400 x 900	*(3)	
	2000 mm			2000 mm	x 2000 mm		
Net Weight	675.5 kg	*(3)		2408 kg	2779 kg	*(3)	
ENVIRONMENT							
Operating Temperature	0 to 40 °C						
Humidity	0-95% (non-	condensing)					
Audible Noise	< 78 dBA	*(3)		< 84 dBA	< 85 dBA	*(3)	
Altitude	0-2000 m (de	erating 1%/100	m from 1001-20	000 m)			
Ingress Protection Level	IP20						
CONFORMANCE							
Safety	UL1778						
EMC	FCC Class A						
Performance	IEC 62040-3						
Sustainability		H, Energy Star					
FEATURES	,	. 3,					
Standard				eed protection wi			
Optional	Advance failu	re prediction,	Grid interactive,	Software integra			

(1) Upcoming product

(2) 34-35 pcs require service setting and load derating

(3) To be released

UPS Management - Connectivity

SNMP IPv6 Card

G3 SNMP IPv6 Card





Functions and Features

Available Protocols

- SNMPv1, v2c and v3 supported; accepts NMS monitoring as well as actively sends trap packets to target hosts; supports IPv4 and IPv6 TCP/IP protocols
- MODBUS TCP/IP
- Web monitor and set up through network browser with built-in web server
- Remote authentication: RADIUS, LDAP
- Others telnet, SSH, FTP, SFTP, BOOTP, DHCP, SMTP, SNTP, WOL, Syslog
- MIB supports RFC1628 and Delta proprietary UPSv4 and UPSv5 MIB

Management

- Scheduling: performs planned UPS power on & off and battery testing
- Regular power on & off
- Regular battery discharging testing
- Smart power shutdown and send email notice
- Environment probe (optional) for environment temperature and humidity monitoring

Event Log Recording and Export

• Event sequence and UPS parameter data recording

Technical Specifications

Model	SNMP IPv6 Card	G3 SNMP IPv6 Card
DEPLOYMENT		<u> </u>
Network Connection	10/100 M RJ45 Connector	10/100/1000 M RJ45 Connector
Input Power	12 Vdc	
Power Consumption	< 2 W	< 4 W
Operation Temperature	0 to 60 °C	
Operation Humidity	0-95%	
PHYSICAL		
Dimensions	130 x 60 mm	
Net Weight	75 g	
CONFORMANCE		
Standard	EN 55022 Class A, EN 55024 ICES-003	EN 55032:2015+A11:2020, EN 55035:2017+A11:2020
Product Certifications	FCC Class B, CE, UL, CAN/CSA	FCC Class B, CE, UL
Sustainability	RoHS, REACH	

Relay I/O Card



Functions and Features

Output

- Programmable: 6 output relays, each of them can be configured to represent one of the 20 UPS events respectively
- NC/NO: 6 output relays, each of them can be configured to either NC (Normal Close) or NO (Normal Open)

Input

• Programmable: The input signal can be configured to turn off the UPS or to issue a battery test command

Technical Specifications

Model	Relay I/O Card
DEPLOYMENT	
Input Power	8-20 Vdc
Power Consumption	< 1.2 W
Operation Temperature	0 to 40 °C
Operation Humidity	10-80%
PHYSICAL	
Dimensions	130 x 60 mm
Net Weight	200 g

MODBUS Card



Converts status and parameter data of your UPS to comply with the standard MODBUS protocol

Functions and Features

- Communications interface: RS-232 port x1, RS-485 or RS-422 port x1
- Device ID can be set to any number between 0-255
- Terminating resistance of RS-485/422 can be set by dip switch
- MODBUS communications format: Supports RTU format
- Baud rate: 2400, 4800, 9600 or 19200
- Data bit: 7 or 8
- Parity check: none, even or odd

Technical Specifications

Model	MODBUS Card	
DEPLOYMENT		
Input Power	8-14 Vdc	
Power Consumption	< 1.2 W	
Operation Temperature	0 to 40 °C	
Operation Humidity	10-80%	
PHYSICAL		
Dimensions	130 x 60 mm	
Net Weight	150 g	

UPS Management - Connectivity

Mini SNMP IPv6 Card



Functions and Features

Available Protocols

- SNMPv1, v2c and v3 supported; accepts NMS monitoring as well as actively sends trap packets to target hosts; supports IPv4 and IPv6 TCP/IP protocols
- MODBUS TCP/IP
- MQTT
- Web monitor and set up through network browser with built-in web server
- Remote authentication: LDAP, 802.1x
- Others telnet, SSH, FTP, SFTP, BOOTP, DHCP, SMTP, SNTP, WOL, Syslog
- MIB supports RFC1628 and Delta proprietary UPSv4 and UPSv5 MIB

Management

- Scheduling: performs planned UPS power on & off and battery testing
- Regular power on & off: can set up UPS power on and off time
- · Regular battery discharging testing
- Smart shutdown: can send power off signal to connected host actively if the host computer has the ShutdownAgent installed
- Optional environment probe can integrate ambient temperature and humidity with 4 additional digital inputs for total cabinet monitoring

Event Log Recording and Export

• Event sequence and UPS parameter data recording

Technical Specifications

Model	Mini SNMP IPv6 Card
DEPLOYMENT	
Network Connection	10/100 M RJ45 Connector
Input Power	12 Vdc
Power Consumption	< 2 W
Operation Temperature	0 to 60 °C
Operation Humidity	0-95%
PHYSICAL	
Dimensions	87 x 70 x 30 mm
Net Weight	75 g
CONFORMANCE	
Standard	EN 55032:2015+A11:2020, EN 55035:2017+A11:2020
Security	IEC 62443-4-1, IEC 62443-4-2
Product Certifications	FCC Class B, CE, UL
Sustainability	RoHS, REACH

Mini USB Card



Functions and Features

- Communication protocol: SCI: Delta Regular v1.51; USB: Delta HID Protocol v3.4
- Supports HID (Human Interface Device) protocol: the UPS can communicate with Windows XP/ 2003/ 2008/ 2012/ Win7/ Win8 without monitoring software
- Compatible with Delta UPS standard software UPSentry 2012

Technical Specifications

Model	Mini USB Card
DEPLOYMENT	
Input Power	12 Vdc
Power Consumption	0.5 W
Operation Temperature	0 to 40 °C
Operation Humidity	10-80%
PHYSICAL	
Dimensions	68 x 43 mm
Net Weight	30 g

Mini Dry Contact Card



Functions and Features

- UPS status information presented as 3 contact closures
- Configurable input signal as shutdown UPS or battery test
- Programmable output contact monitors status of UPS
- Configurable UPS shutdown delay time
- Protects up to 3 computers
- · Unattended graceful shutdown

Technical Specifications

Model	Mini Dry Contact Card
DEPLOYMENT	
Input Power	8-22 Vdc
Power Consumption	0.8 W
Operation Temperature	0 to 40 °C
Operation Humidity	10-80%
PHYSICAL	
Dimensions	68 x 43 mm
Net Weight	35 g

UPS Management - Connectivity

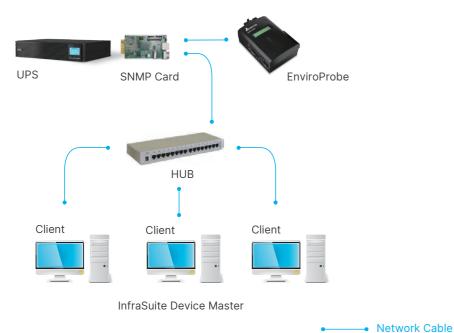
EnviroProbe



EnviroProbe monitors temperature, humidity in a single cabinet or area and transmits signals from environment sensor devices in the data center (e.g.: door sensors, smoke detectors, fire detectors, water-leakage detectors and others) to management via network.

Functions and Features

- LCD display
- Ambient temperature & humidity monitoring and water-leakage detection
- Digital & analog input/output contacts for monitoring and controlling other devices
- Supports MODBUS RTU protocol
- InfraSuite Device Master software for remote monitoring and recording



Technical Specifications

Model	EMS1000	EMS1100	EMS1200		
DEPLOYMENT		,			
Input	EMS2000 Delta-BUS or SN	EMS2000 Delta-BUS or SNMP Card: 12 Vdc (pin 1 & 4) with PDU SNMP card: 5 Vdc (pin 2 & 4)			
Input/ Output Contacts	4 inputs (dry/wet)	4 digital outputs	2 analog inputs, 1 analog output and 1 water-leakage detection		
Operation Temperature	0 to 60 °C	0 to 45 °C			
Storage Temperature	-20 to 60 °C	0 to 60 °C			
Operation Humidity	0-90% ± 3% (non-condens	sing)			
PHYSICAL					
Dimensions (W x D x H)	66 x 33 x 103 mm				
Net Weight	120 g	130 g			
CONFORMANCE					
Standard	EN55022 Class B, EN5502	4			
Product Certifications	CE, UL, cUL				
Sustainability	RoHS, REACH				

UPS Management - Software

Software		InfraSuite Device Master UPSentry 2012		ShutdownAgent 2012	
Communications Mechanism	n				
RS-232		•	•		
USB			•		
RS-485		•			
SNMP		•		•	
Key Functions					
Shutdown OS			•	•	
Centralized management		•			
Remote control		•	•		
Virtual machine shutdown	Hyper-v		•	•	
	ESXi			•	
Supported Operating System	ns				
Windows		•	•	•	
Linux			•	•	



UPS Management - Software

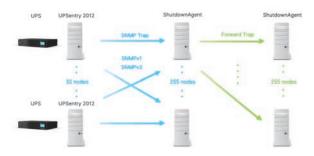
UPSentry 2012

Functions and Features

- Supports RS-232 and USB communication
- Provides web interface through HTTP and HTTPS
- Provides batch configuration to deploy settings with the snap of a finger
- Supports SNMP Trap v1, v2c, v3
- Supports SNMPv1, v3 server access for monitoring UPSentry 2012 status and configuring shutdown parameters
- Works with ShutdownAgent 2012 to protect a huge number of hosts
- Provides console configuration for basic system parameters setup
- Supports Windows and Linux 32/64 bits software programs

Supported Operating Systems

- Windows 7, 8, 10, 11
- Windows Server 2012, 2016, 2019
- Windows Hyper-V Server Core 2016/2019
- Redhat Linux Exterprise
- Orcale Linux 7.1
- Linux OpenSUSE 11.4
- Linux ubuntu 10.04, 12.04.5, 16.04, 20.04
- Citrix XenServer 6.0.0
- Linux KVM



Scheduling

- Supports scheduling shutdown, restart and battery test
- System power on/off
- 10 seconds test and deep discharge test

Event Tracking

- Supports 10,000 event log entries
- Displays history values by a single date, month and year or a defined period of time
- Exports data in csv. file format
- Clears the history data and event logs on the web interface



Shutdown Protection

- Input power fail
- Bypass
- Battery low
- Schedule shutdown
- Overload

Web Interface

- Monitors UPS status through web interface
- System Summary: UPS identification, shutdown type, scheduling information and last five events log
- Battery: battery status, battery measurement, battery cabinet and replacement date
- In/Out/Bypass: Information on input measurement, bypass measurement and output measurement
- Identification: Information on identification and UPS rating
- Status Indication: Information on immediate UPS status indication
- Power Module: Information on power module bypass and power module ID1/2/3/4
- Shutdown Agent: Collect all of the ShutdownAgent 2012 which you have assigned to work with UPSentry 2012 to protect a group of servers

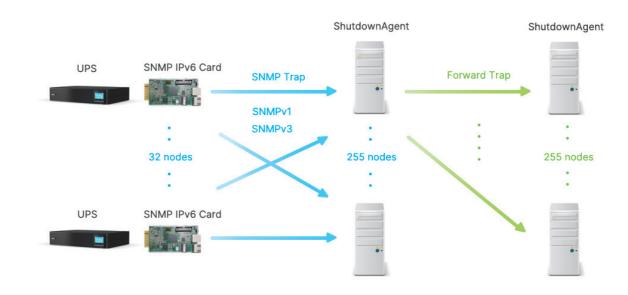
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• Displays event log and history values

Shutdown Agent 2012

Functions and Features

- Supports SNMPv1, v2c, v3 trap
- Provides web interface through HTTP and HTTPS
- Provides batch configuration to deploy settings with the snap of a finger
- Forwards SNMP trap to extend protecting more than 255 servers
- Supports up to 32 input trap sources for redundant (logical OR) and parallel (logical AND) application
- Provides console configuration for basic system parameters setup
- Supports Windows and Linux 32/64 bits setup programs



Supported Operating Systems

- Windows 7, 8, 10, 11
- Windows Server 2008, 2012, 2016, 2019, 2022
- Windows Hyper-V Server Core 2016/2019
- Redhat Linux Enterprise 8.3
- Orcale Linux 7.1
- Linux OpenSUSE 11.4
- Linux ubuntu 10.04, 12.04.5, 16.04, 20.04
- Linux Fedora 3.1.9
- VMWare ESXi 4.1, 5, 5.1, 5.5, 6, 7, 7.5, 8 (with essential license after version 5)
- Citrix XenServer 6.0.0
- Linux KVM
- IBM AIX 7.1



UPS Management - Software

Delta InfraSuite Device Master

InfraSuite Device Master provides a rich set of capabilities that simplify and automate critical device monitoring. It allows users to observe the status of all devices, query event logs or history data, and assists users in taking appropriate action. With cost effective deployment, this software solution is scalable to match your business growth.

Free to Download

InfraSuite Device Master is free to download with 5 nodes by default for monitoring your devices. Various infrastructure facilities such as power and cooling in a data center can be monitored.

Real-Time Monitoring

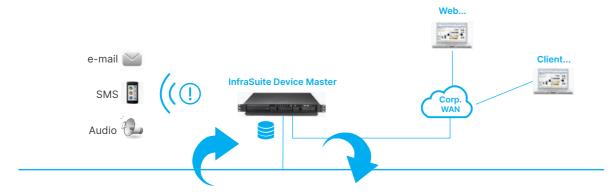
Users can gather the latest status of critical facilities in a data center through the system screens of InfraSuite Device Master. InfraSuite Device Master also lets you view all of a site's device information, query history and events at the same time, even for multiple sites in different countries.

Easy to Deploy

The download file is ready on the Delta Software website. InfraSuite Device Master is easy to install on your server or PC, with software designed for quick installation and implementation.

Migration to InfraSuite Manager (DCIM)

If you are not only looking for device monitoring but also a complete DCIM solution, InfraSuite Device Master is the quickest way of migrating to InfraSuite Manager, which is Delta's full feature DCIM software solution.



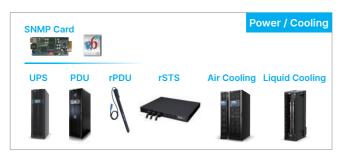




FIGURE 1. Delta InfraSuite Device Master Monitoring Application

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Product Features

Navigational Graphics

Navigational graphics of the InfraSuite Device Master are customizable. Users can design a floor layout using the provided components.

Multiple Protocol Support

InfraSuite Device Master supports multiple device protocols, such as MODBUS, SNMP and OPC.

Proactive Notification

Proactive notifications provide automated, personalized email, short messages, and audio to users.

User Account Management

Users can be classified into groups based on privilege levels. The job scope of each privilege level is defined by administrators. The jobs include the level of visible access to layout plans, device control and system operation.

Event Management

InfraSuite Device Master has categorized event levels with 16 levels to help users take appropriate action accordingly. In addition, events can be queried by time, type, level and devices. InfraSuite Device Master records the system, operator and device events in its database where the user can review the events' status.

Data Storage and Backup

InfraSuite Device Master stores all history events and data into its database. Users may use this data for analysis. In addition, the database can be backed up automatically according to user preference.



FIGURE 2. Navigational Graphics

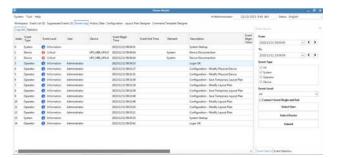


FIGURE 3. Event Log List

System Requirements

	InfraSuite Device Master: Server	InfraSuite Device Master: Windows Application UI	InfraSuite Device Master: Web Monitor UI
Hardware	CPU: > 2 GHz Memory: ≥ 4 G Free HD Space: ≥ 50 G	CPU: > 2 GHz Memory: ≥ 4 G	CPU: > 2 GHz Memory: ≥ 4 G
Software	Supported OS: Windows 10, 11 Windows Server 2016, 2019, 2022	Supported OS: Windows 10, 11 Windows Server 2016, 2019, 2022	Recommended Browser: Google Chrome, Mozilla Firefox and Microsoft Edge.



Delta: Your Complete Data Center Solutions Provider

In the data center environment, reliable power distribution and efficient cooling are equally vital alongside high performance UPSs. Delta ensures excellence on every front, delivering uninterrupted power flow for optimal performance.



Power Management



Power Distribution Unit (PDU)

- Rating: 450/500/650/950 kVA (Support for customization)
- Robust resilience: adopts compartmentalized electrical components, redundant auxpower, K-factor isolation transformer
- Enhanced efficiency: uplevels natural convection cooling and DOE-compliant copper transformer
- Easy management: offers real-time & optional billing grade metering system



Rack Power Distribution Unit (rPDU)

- Basic, metered and switched types available (Support for customization)
- Space saving: supports Zero-U, vertical/horizontal, rear and side installation
- Effortless handling: uses network module for remote management





- or selles
- Rating: 400-6400 A. IP 68 certified, designed for outdoor use
- Crafted with vacuum-cast epoxy, ensures safety and reliability with copper or aluminum conductors for efficient power transmission
- IEC 61439, UL 857 certified



BR Series

- Rating: 250-2000 A. IP20 (IP55 optional) for white space use
- Uses epoxy cast resin for safety and reliability, with copper conductors exceeding 99.9% purity
- Hot-swappable plug-in units and successive plug-in slot
- IEC 61439, UL 857 certified



Static Transfer Switch (STS)

- Rating 200/800/1800 A (Support for customization)
- Excellent reliability: provides redundant aux-power, control board and fan
- Easy maintenance: modular design offers full front access, top/bottom cable entry



Rack Static Transfer Switch (rSTS)

- 1-phase and 3-phase rPDUs with CE or UL certification
- Patented SCR with parallel relay enhances reliability without sacrificing efficiency



Precision Cooling



Liquid Cooling

- Air-assisted liquid cooling (AALC)
- Coolant distribution unit (CDU)
- Rear door heat exchanger (RDHx)
- Single-phase immersion cooling (Hydrocarbon)
- Two-phase immersion cooling



Air Cooling

- Room cooling: with both CW⁽¹⁾ and DX⁽²⁾ system types
- In-row cooling: with both CW and DX system types
- Air distribution unit

(1) CW: Chilled water system (2) DX: Direct expansion system



Rack & Accessories



Modular Rack

- Tool-less setup, smooth cable management with 70% perforation for heat dissipation
- Compliant with EIA 310 rack standards
- Versatile accessories for organized data centers with customized service



Management System



Data Center Infrastructure Management (DCIM)

- Consolidates all aspects of facility and IT equipment management into one platform
- Integrates modules for data center operations, including asset and server management, PUE energy monitoring, and graphical analysis for energy optimization



About Delta Group

Leading expert in power management and thermal management solutions

Delta, founded in 1971, is a global provider of power and thermal management solutions. Its mission statement, "To provide innovative, clean and energy-efficient solutions for a better tomorrow," focuses on addressing key environmental issues such as global climate change. As an energy-saving solutions provider with core competencies in power electronics and automation, Delta's business categories include Power Electronics, Automation, and Infrastructure.

Delta offers some of the most energy-efficient power products in the industry, including switching power supplies with efficiency over 90%, telecom power with up to 98%, and PV inverters with up to 99.2% efficiency. We have also developed the world's first server power supply certified as 80 Plus Titanium.



Global Footprint

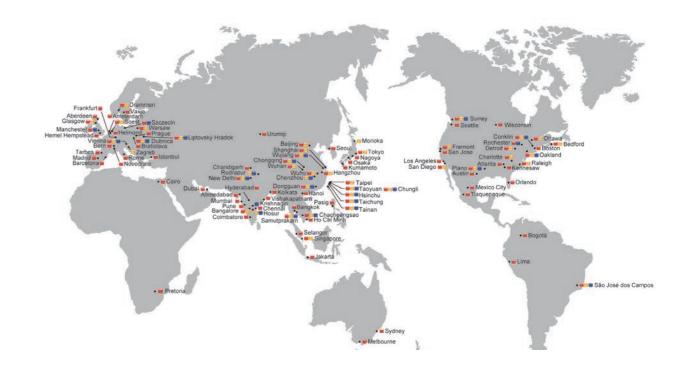
World's No. 1 in Switching Power Supplies, DC Brushless Fans and Telecom Power Systems.

157 sales offices and 51 manufacturing facilities worldwide.

Over 8% of annual sales revenues invested in R&D with over 10,000 engineers in 73 R&D centers worldwide.

Awarded over **12,000** patents and received internationally recognized design awards including iF, Reddot, and the Taiwan Excellence awards.

	Asia-Pacific	Americas	EMEA	Total
■ Sales Offices	99	27	31	157
■ Plant Sites	41	6	4	51
R&D Centers	48	10	15	73





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