

# Modulon DPH Series UPS

Three-phase, 20-80/120 kVA, 400 Vac

## Power Up: Modular UPS for Optimal Efficiency in Small to Medium Data Centers

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

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- 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/m<sup>3</sup> which supports top/bottom cable entry without an additional cabinet to achieve the best utilization compared with its peers

### Ultimate Availability

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- 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

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- User-friendly 10" color touchscreen 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



IT



Telecom



Industrial



Transportation



Financial



Government



# Technical Specifications

Model	DPH-80K	DPH-120K
Power Rating	20/40/60/80 kVA 20/40/60/80 kW	20/40/60/80/100/120 kVA 20/40/60/80/100/120 kW
Frame Size	80 kW	120 kW
Parallel Configuration	Up to 8 units	
<b>INPUT</b>		
Nominal Voltage	380/400/415 Vac, 3P4W+PE	
Voltage Range	305-477 Vac (100% load); 228-305 Vac (with derating to 70-100% load)	
Frequency	40-70 Hz	
Total Harmonic Distortion (THDi)	< 2% <sup>(1)</sup>	
Power Factor	> 0.99 (full load)	
<b>OUTPUT</b>		
Nominal Voltage	380/400/415 Vac, 3P4W+PE	
Voltage Regulation	±1%	
Frequency	50/60 ± 0.05 Hz	
Total Harmonic Distortion (THDv)	≤ 1% (linear load); ≤ 5% (non-linear load)	
Power Factor	1	
Overload Capability	≤ 125%: 10 mins; ≤ 150%: 1 min; > 150%: 1 sec	
Current Crest Ratio	3:1	
<b>EFFICIENCY</b>		
Online Mode	Up to 96.2%	
ECO Mode	Up to 99%	
<b>BATTERY</b>		
Battery Type	VRLA/Lithium-ion	
Nominal Voltage	±180-±276 Vdc (configurable, ±240 Vdc default)	
Quantity	30-46 pcs (configurable)	
Maximum Charge Current	32 A	48 A
<b>COMMUNICATION INTERFACE</b>		
Display	10-inch color touchscreen	
Port	Smart slot x1, Modbus port (RS-485), REPO, EMS/Console (RJ45), BMS (RS-485), Ethernet port x1, Input dry contact x4, Output dry contact x6, External battery temperature detection x4, External switch/breaker status dry contact x4	
Protocols	SNMP, Modbus RTU, Modbus TCP/IP, HTTP(S), SNT, SMTP, Syslog, BOOTP, DHCP	
<b>PHYSICAL</b>		
Dimensions (W x D x H)	600 x 850 x 1445 mm	
Net Weight	UPS System Per Power Module	150 kg 18 kg   162 kg
<b>ENVIRONMENT</b>		
Operating Temperature	0 to 40 °C	
Humidity	0-95% (non-condensing)	
Altitude	0-1000 m	
Storage Temperature	-20 to +70 °C	
<b>CONFORMANCE</b>		
Safety	CE, UKCA, RCM, BSMI	
EMC	IEC 62040-2	
Performance	IEC 62040-3	
Sustainability	RoHS, REACH	
<b>FEATURES</b>		
Standard	Sequential start for generator, Burn-in test without load bank, Cold start function, Frequency conversion, Failure prediction	
Optional	Software integration with Delta lithium-ion battery BMS	

(1) Input voltage total harmonic distortion < 1%

All specifications are subject to change without prior notice.



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