Delta UPS Modulon Family

DPH Series, Three Phase, 20-120 kVA, 380/400/415 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

- 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) close to zero without downtime risk
- Redundant components and dual CAN bus deliver highest system availability and avoid 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

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Technical Specifications

Model		DPH-80K	DPH-120K
Power Rating		20/ 40/ 60/ 80 kVA	20/ 40/ 60/ 80/ 100/ 120 kVA
		20/ 40/ 60/ 80 kW	20/ 40/ 60/ 80/ 100/ 120 kW
Frame Size		80 kW	120 kW
Parallel Configuration		Up to 8 units	
INPUT			
Nominal Voltage		380/ 400/ 415 Vac, 3P4W+PE	
Voltage Range		176-276/ 305-477 Vac (Full Load) 132-176/ 228-305 Vac (De-rated 70% Load)	
Frequency		40-70 Hz	
Total Harmonic Distortion (THDi)		< 2%(1)	
Power Factor		> 0.99 (full load)	
OUTPUT			
Nominal Voltage		380/ 400/ 415 Vac, 3P4W+PE	
Voltage Regulation		±1% (static)	
Frequency		50/60 ± 0.05 Hz	
Total Harmonic Distortion (THDv)		≤ 1% (Linear Load), ≤ 4% (Non-linear Load)	
Power Factor		1.0	
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 battery	
Nominal Voltage		±180-±276 Vdc (configurable, ±240 Vdc default)	
Quantity		30-46 pcs (configurable)	
Maximum Charge Current		32 A	48 A
COMMUNICATION INTERFACE			
Display		10" Color Touch Screen	
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), 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
	Per Power Module	18 kg	
ENVIRONMENT			
Operating Temperature		0 to 40 °C	
Humidity		0-95% (non-condensing)	
Audible Noise		< 65 dBA	< 75 dBA
Altitude		0-1000 m	
Storage Temperature		-20 to +70 °C	
Ingress Protection		IP20	
CONFORMANCE			
Safety		CE, BSMI, RCM	
EMC		IEC 62040-2	
Performance		IEC 62040-3	
Sustainability		RoHS, REACH	
FEATURES			
Burn-in Test without Load Bank		Standard	
Cold Start Function		Standard	
Frequency Conversion		Standard	
Failure Prediction		Standard	

(1) Input voltage total harmonic distortion < 1%

All specifications are subject to change without prior notice.

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