

The power behind competitiveness

Delta UPS – Modulon Family

DPH Series, Three Phase
20 - 80/120 kVA

The next generation of modular UPS systems designed for ultimate availability, excellent performance, high efficiency, and ideally suited for medium-sized datacenters.

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' demand for ultimate availability, excellent performance, and high efficiency. The brand-new Delta Modulon DPH series UPS 80/120 kVA achieves the industry's leading power density of 20kW per module in 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 application with its' small package, flexibility and seamless integration.

Excellent Power Performance

- The industry's leading power technology offers up to 120kW within all equipped breakers in 162.8 kW/m³ which supports the top/bottom cable entry without additional cabinet to achieve the best utilization compared with its peers
- 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

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
- Key components aging pre-warning mechanism to provide the proactive reliability to minimize the human error and reduce the downtime risk (optional).

High Manageability

- User-friendly 10" color touch screen enables easy local UPS management
- Environment information such as temperature, humidity and transmits signals from environment sensor 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



Data Center



Telecom



Industrial



Network



Banking



Security



Lab



Medical



Metro



Smarter. Greener. Together.

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Technical Specification

Model		DPH-80K	DPH-120K
Power Rating	kVA	20/40/60/80kVA	20/40/60/80/100/120kVA
	kW	20/40/60/80 kW	20/40/60/80/100/120kW
	Power Module Quantity	Up to 4 units	Up to 6 units
Input	Nominal Voltage	220/380V, 230/400V, 240/415V (3-phase, 4-wire +G)	
	Voltage Range	305~478Vac (full load), 228~478Vac (70% load)	
	Current Harmonic Distortion	≤ 2% *	
	Power Factor	> 0.99	
	Frequency Range	50/60 Hz	
Output	Voltage	220/380V, 230/400V, 240/415V (3-phase, 4-wire +G)	
	Voltage Harmonic Distortion	≤ 1% (linear load); ≤ 4% (non-linear load)	
	Voltage Regulation	±1% (static)	
	Frequency	50/60 Hz	
	Overload Capability	≤ 125% : 10 minute ; ≤ 150% : 1 minute ; >150%: 1 second	
Display		10" color touch screen	
Interface	Standard	External battery temperature detection x 4, External switch/breaker status dry contact x 4, Output dry contact x 6, Input dry contact x 4, Parallel port x 2, USB Port (Type A x 2; Type B x 1), RS232 Port x 1, Modbus Port x 1, BMS (RJ45) x 1, Ethernet x 1, SNMP Slot x 1, REPO Port x 1	
Conformance	Safety	CE (IEC62040-1, IEC62040-2 (C3: standard, C2: optional)	
Efficiency	AC-AC Mode	> 96% (Peak efficiency)	
	ECO Mode	99%	
Battery	Nominal Voltage	±240 Vdc (default, ±180Vdc~±276Vdc configurable)	
	Charge Voltage	±272Vdc (adjustable from 204V to 312V)	
	Protection of Battery Deep Discharge	Yes	
Environment	Operating Temperature	0 ~ 40°C	
	Relative Humidity	95% (non-condensing)	
	Audible Noise (at one meter)	< 65 dB	
	IP Protection	IP20	
Others	Parallel Redundancy and Expansion	Module and system redundancy ; Maximum 8 units	
	Battery Start	Yes	
Physical	Dimensions (W x D x H)	600 x 850 x 1445 mm	
	Weight : UPS System (without power modules)	150 kg	162 kg
	Weight : 20kW Power Module (optional)	18 kg	

* When input voltage total harmonic distortion input is less than 1%
All specifications are subject to change without prior notice.



20kW in 2U space



User-friendly 10" color touch screen



Fully modularized and hot-swappable design