

# Delta UPS - Modulon Family

DPH Series, Three Phase, 50 - 300/500 kVA, 480 V

## The world's leading power density in a compact footprint provides the ultimate in UPS power protection

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 datacenter space. Delta's innovative modularized UPS technologies provide the answer to customers' demand for high power density, high power performance, and ultimate availability. The brand-new Delta Modulon DPH series UPS achieves the industry's leading power density of 50 kVA / 50 kW per module, offering the smallest footprint and best space utilization. The Modulon DPH UPS is the ideal power protection for datacenters to achieve total cost of ownership (TCO) optimization.

### Excellent Power Performance

- The industry's leading power density per module at 50 kVA in a 3U space, and the smallest footprint for 300 kVA in a single rack, achieves the best utilization compared with its peers
- High AC-AC efficiency up to 97% and ECO mode to 99% results in marked energy cost savings with Energy Star 2.0 certification
- Green mode features a load aggregation function that optimizes system efficiency

### Ultimate Availability

- Fully modularized design and easy-swappable key modules ensure the minimum Mean Time To Repair (MTTR)
- Redundancy components and dual CAN bus deliver highest system availability and avoid single point of failure
- Modularized UPS grows with your business by parallel expansion up to 4 units for 2 MVA of total power capacity
- Key components preventive maintenance reduces the risk of drop load

### High Manageability

- User-friendly 10" color touch screen enables easy local UPS management
- Inbuilt with remote access via SNMP, Modbus TCP/IP and Modbus RTU protocols
- Environment information such as security, water, fire, and temperature can be integrated into the UPS for easy monitoring via the LCD of the UPS
- Inbuilt waveform recorder captures failure symptoms of critical events for further diagnosis



IT



Telecom



Industrial



Transportation



Financial



Government



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## Technical Specifications

Model		DPH-300K-HV	DPH-500K-HV
Power Rating	kVA / kW	50, 100, 150, 200, 250, 300	350, 400, 450, 500
	Power Module Quantity	Up to 6 units	Up to 10 units
Input	Nominal Voltage	480 V (3-phase, 3-wire + G)	
	Voltage Range	408~552 Vac (full load)	
	Current Harmonic Distortion	≤ 2.5%*	
	Power Factor	> 0.99	
	Frequency Range	40~70 Hz	
Output	Voltage	480 V (3-phase, 3-wire + G)	
	Voltage Harmonic Distortion	≤ 0.5% (linear load)	
	Voltage Regulation	± 1% (static)	
	Frequency	50/60 ± 0.05 Hz	
	Overload Capability	≤ 105%: continuously; > 105~110%: 60 minutes; > 110~125%: 10 minutes; > 125%~≤ 150%: 1 minute	
Display		10" color touch screen	
Interface	Standard	Parallel port x 4, USB Type A x 2, USB Type B x 1, Modbus port x 1, Ethernet x 1, RS232 x 1, REPO x 1, Input dry contact x 4, Output dry contact x 6, Battery temperature sensor x 4, External switch detection x 4, Smart card slot x 1,	
	Optional	Relay I/O card, Battery cabinet temperature sensor cable	
Efficiency	AC-AC Mode	Up to 97%	
	ECO Mode	99%	
Battery	Nominal Voltage	480 Vdc (Default, adjustable from 360 Vdc to 552 Vdc)	
	Charge Voltage	544 Vdc (Default, adjustable from 408 V to 624 V)	
	Protection of Battery Deep Discharge	Yes	
Environment	Operating Temperature	0~40°C	
	Relative Humidity	0~95% (non-condensing)	
	Audible Noise	< 75 dB**	
	IP Protection	IP20	
Others	Parallel Redundancy and Expansion	Modularized and system redundancy; Maximum 4 units	
	Emergency Power Off	Remote (default)	
	Battery Start	Yes	
Physical	Dimensions (W x D x H)	23.62 x 33.46 x 78.74 in.	55.12 x 33.46 x 78.74 in.(default) 55.12 x 43.31 x 78.74 in. (against the wall)
	Weight: UPS System (without power modules)	588.6 lb	1162.3 lb
	Weight: 50kW Power Module (optional)	78.26 lb	

\* When input vTHD is less than 1%.

\*\* At a distance of 3.28 ft (1 meter) of the UPS

All specifications are subject to change without prior notice.



50 kVA in 3U space



User-friendly 10" color touch screen



Most compact footprint



Modularized topology, easily swappable and lowest MTTR



Delta Group



Delta Power Solutions

