

The power behind competitiveness

# Delta UPS – Modulon Family

DPH Series, Three Phase

50 - 500 kVA

## The world's highest power density 500kVA in a single rack providing ultimate MW power protection with leading power performance and superior reliability

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 datacenter space. Delta's innovative modular 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 500kVA achieves the industry's leading power density of 55.6kVA per module, offering the smallest footprint and best space utilization. The Modulon DPH 500kVA UPS is the ideal modular power protection for MW datacenters to achieve total cost of ownership (TCO) optimization.

### Excellent Power Performance

- The industry's leading power density per module at 55.6kVA in 3U space, and the smallest footprint for 500kVA in a single rack, to achieve the best utilization compared with its peers
- High AC-AC efficiency up to 96.5% 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
- Redundancy 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 4MVA 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



Datacenter



Telecom



Industrial



Network



Banking



Security



Lab



Medical



Metro



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## Technical Specifications

Model		DPH 50	100	150	200	250	300	350	400	450	500
Power Rating	kVA	50	100	150	200	250	300	350	400	450	500
	kW	50	100	150	200	250	300	350	400	450	450
	# of Power Module	1	2	3	4	5	6	7	8	9	9
Input	Nominal Voltage	220/380V, 230/400V, 240/415V (3-phase, 4-wire + G)									
	Voltage Range	176 ~ 276 Vac (full load)									
	Current Harmonic Distortion	< 3%*									
	Power Factor	> 0.99									
	Frequency Range	40 ~ 70 Hz									
Output	Voltage	220/380V, 230/400V, 240/415V (3-phase, 4-wire + G)									
	Voltage Harmonic Distortion	≤ 2% (linear load)									
	Voltage Regulation	±1% (static)									
	Frequency	50/60 ± 0.05 Hz									
	Overload Capability	≤ 125% : 10 minutes ; ≤ 150% : 1 minute									
Display		10" color touch screen									
Interface	Standard	RS232 x 1, Parallel port x 4, USB x 3, Modbus x 1, Smart card slot x 1, REPO x 1, EPO x 1, Input dry contact x 4, Output dry contact x 6, Battery temperature sensor x 4, External switch detection x 4, RJ45 x 1, Ethernet x 1									
	Optional	Relay I/O card, Battery cabinet temperature sensor cable									
Conformance	Safety	CE									
Efficiency	AC-AC Mode	Up to 96.5%									
	ECO Mode	99%									
Battery	Nominal Voltage	±240 Vdc									
	Charge Voltage	±272V (adjustable from 204V to 312V)									
	Protection of Battery Deep Discharge	Yes									
Environment	Operating Temperature	0 ~ 40 °C									
	Relative Humidity	0 ~ 90% (non-condensing)									
	Audible Noise	<65 dB									<80 dB
	IP Protection	IP 20									
Others	Parallel Redundancy and Expansion	Module and system redundancy ; Maximum 8 units									
	Emergency Power Off	Remote (default) and local (optional)									
	Battery Start	Yes									
Physical	Dimensions (W x D x H)	600 x 1100 x 2000 mm									
	Weight	353 kg	389 kg	425 kg	461 kg	497 kg	533 kg	569 kg	605 kg	641 kg	641 kg

Remark : The power module's power rating is adjustable to either 50kVA or 55.6kVA via touch panel.

\* When input vTHD is less than 1%.

All specifications are subject to change without prior notice.



55.6kVA in 3U space



User-friendly 10" color touch screen



Fully modularized and hot-swappable design



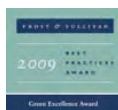
Optional switch cabinet with same IT exterior and dimension



The Modulon DPH is designed in modern IT aesthetics aligned with Delta InfraSuite datacenter solutions.



2007~ 2008 Forbes Asia's Fabulous 50



2009 Frost & Sullivan Green Excellence Award for Corporate Leadership



Delta's Manufacturing System Certified by ISO 9001 and ISO 14001 Standards



IECQ Certificate of Hazardous Substance Process Management

