

The power behind competitiveness

# Delta UPS – Modulon Family

DPH Series, Three Phase

25 - 75/150/200 kW

## Ultimate Availability Without Compromising Power Efficiency

The Modulon DPH supports ultimate availability for datacenter operations and provides the benefit of “pay as you go” without over-sizing the UPS. While achieving ultimate availability, the Modulon DPH does not compromise on power efficiency performance. When availability, efficiency and expanding according to business needs are essential, the Modulon DPH is the ideal UPS system to provide power protection and total cost of ownership (TCO) savings.

### Ultimate Availability

- Advanced fault tolerance design achieved by self redundancy to guarantee operation continuity
- Self-synchronization of power and control modules for continuous on-line operation even in the event of control module failure to avoid downtime caused by single point failure
- Hot-swappable key modules and components to ensure Mean Time To Repair (MTTR) close to zero without downtime risk

### High Scalability

- Vertical expansion from 25kW to 75/150/200kW supporting N+X redundancy in a single rack enclosure to save footprint
- Parallel expansion up to four units without requiring additional hardware
- Optional Rack-Mount PDC (applicable for 75/150kW models) has flexibility to arrange its UPS's output power feeding according to its connected critical loads.
- Optional built-in battery modules (applicable for 75kW models) at maximum four units (four battery trays each)

### Excellent Power Performance and Efficiency

- Full rated power (kVA=kW) to maximize power availability
- High operating efficiency of 95% at 30% light load and 96% from 50% load resulting in marked energy cost savings
- Low harmonic pollution (iTHD<3%) to reduce upstream investment costs and meet demanding power requirements

### Easy Maintenance

- Built-in manual bypass features to eliminate maintenance-related downtime
- Proactive detection of fan failure and switch fault for early diagnosis on UPS malfunction
- Plug and play modularity to simplify the maintenance process



Datacenter



Telecom



Industrial



Network



Banking



Security



Lab



Medical



Metro



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### Technical Specifications

Model		DPH-75K	DPH-150K	DPH-200K	
Power Rating (kVA)		25, 50, 75	25, 50, 75, 100, 125, 150	25, 50, 75, 100, 125, 150, 175, 200	
Frame		75kW	150kW	200kW	
Input	Nominal Voltage	380/220V, 400/230V, 415/240V (3 phase, 4-wire +G)			
	Voltage Range	305~478Vac (full load), 242~478Vac (60% load)			
	Current Harmonic Distortion	<3% *			
	Power Factor	> 0.99			
	Frequency	50/60 Hz **			
Output	Voltage	380/220V, 400/230V, 415/240V (3 phase, 4-wire +G)			
	Output Power Factor	1 (kVA = kW)			
	Voltage Harmonic Distortion	≤ 2% (linear load)			
	Voltage Regulation	±1% (static)			
	Frequency	50 or 60 Hz			
	Frequency Regulation	±0.05 Hz			
	Overload Capacity	≤ 125% : 10 minutes ; ≤ 150% : 1 minute			
Interface	Standard	System communication port x 1, LCM port x 1, Parallel port x 2, Smart slot x 2, Output dry contact x 6, Input dry contact x 2, Battery dry contact x 2, REPO			
	Optional	SNMP IPv6 card, ModBus card, Relay I/O card, Battery cabinet temperature sensor cable, Battery cabinet status detection kit			
Conformance	Safety & EMC	BSMI, CE			
Other Features	Parallel Redundancy and Expansion	Module and system redundancy ; Maximum 4 units			
	Emergency Power Off	Local and remote			
	Battery start	Yes			
	Event Log	3000 records			
Efficiency	AC-AC	96% (Tested by TÜV)			
	ECO Mode	99%			
Environment	Operating Temperature	0 ~ 40 °C			
	Relative Humidity	0 ~ 95% (non-condensing)			
	Audible Noise (at one meter)	< 62 dBA			
Physical	Dimensions (WxDxH)	600 x 1090 x 2000 mm			
	Weight	UPS System	310 kg	320 kg	350 kg
		Power Module	32 kg	32 kg	32 kg
		Rack-mount PDC	32 kg	32 kg	N/A
		Battery Module	29.5 kg	N/A	N/A
System Frame	25kW Power Module	3	6	8	
Maximum Capacity	Rack-mount PDC	1	2	N/A	
	Breaker Module (for Rack-mount PDC)	6	12	N/A	
	Battery Module	4	N/A	N/A	

\* When input vTHD is less than 1%.

\*\* Input frequency range can be adjusted up to 40Hz to 70Hz. Delta provides configuration service.

All specifications are subject to change without prior notice.



Full range of power ratings ideal for small and medium datacenters



Scalable and hot-swappable power modules



Optional Rack-Mount PDC with hot-swappable breaker modules and control modules



Optional hot-swappable battery modules



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



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



IACQ Certificate of Hazardous Substance Process Management

