

The power behind competitiveness

# Delta UPS – Modulon Family

DPH Series, Three Phase

15 - 60kVA, 208V

## The highest power density with fully integrated power solutions in one 42U cabinet

The Modulon DPH series UPS supports ultimate availability for data centers and factory facilities. The UPS supports high efficient operation modes and its modular and hot-swappable design makes maintenance easy and quick. It also provides the benefit of "pay as you go" according to business needs to expand overall system capacity without over-sizing the power capacity in the initial stage.

The UPS provides integrated power solutions including power modules (optional), battery modules (optional), static transfer switch and breakers in a single 42U cabinet, which realizes a highly space-saving and cost-effective solution to power requirement.

### Excellent Power Performance

- The industry's leading high power density per power module at 15kVA/15kW in 2U space
- High AC-AC efficiency up to 95% and ECO mode to 98.5% 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
- Battery module's LED fuse warning indicators can alert operators in the event of a blown fuse, and the failure of an individual battery string does not affect the runtime of other batteries
- Redundant components and dual CAN bus delivers highest system availability and avoids single point of failure
- Modular UPS grows with your business by parallel expansion and redundancy up to four units for 240kW of total power capacity
- State-of-the-art microprocessor technology performs self-detection and monitors fan speed in real time

### 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



Data Center



Telecom



Industrial



Network



Banking



Security



Lab



Medical



Metro



Retail



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## Technical Specification

Model		DPH 15-60kVA 208V			
Power rating	kVA	15	30	45	60
	kW	15	30	45	60
Input	Nominal Voltage	208/120V, 220/127V (3 phase, 4-wire +G)			
	Voltage Range	96 ~ 146 Vac (full load)			
	Current Harmonic Distortion	≤ 3% *			
	Power Factor	> 0.99			
	Frequency	50/60 Hz (Auto-Selectable)			
Output	Output voltage	208/120V, 220/127V (3 phase, 4-wire +G)			
	Voltage Harmonic Distortion	≤ 2% (linear load)			
	Frequency	50/60 Hz			
	Output Power Factor	1			
	Overload Capacity	≤ 125%: 10 minutes ; ≤ 150%: 1 minute ; >150%: 1 second			
Efficiency	AC-AC Efficiency	Up to 95%			
	ECO Efficiency	98.5%			
Display		10" Touch Panel			
Interface	Standard	External battery temperature dry contact x 4, External switch / breaker status dry contact x 4, Output dry contact x 6, Input dry contact x 4, Parallel port x 4, USB type A x 2, USB type B x 1, RS-232 port x 1, MODBUS port x 1, BMS (RJ45) x 1, Ethernet x 1, SMART slot x 1, REPO x 1			
Conformance		UL / cUL			
Battery	Battery Type	VRLA			
	Nominal Voltage	+/- 168V			
	Charge Voltage	±190V (adjustable from 182V to 196V)			
	Protection of Battery Deep Discharge	Yes			
Environment	Operating ambient temperature	0 ~ 40 °C			
	Relative Humidity	0~95% (non-condensing)			
	Audible Noise (at one meter)	<70 dBA (full load)		<72 dBA (full load)	
		<65 dBA (<70% load)		<67 dBA (<70% load)	
		IP Degree of Protection	IP20		
Others	Parallel Redundancy	Maximum 4 units			
	Emergency Power Off	Yes (remote as default ; local as optional)			
	Battery Start	Yes			
Physical	Dimension (W x D x H)	600 x 850 x 2000 mm (23.6" x 33.5" x 78.7")			
	Weight (kg)	UPS System Frame: 255 kg (562 lb)			
		Power Module (optional) : 21 kg (46 lb)			
		Battery Module (optional, with batteries) : 23.66 kg (52 lb)			

\*When input vTHD is <1% under linear load conditions.  
All specifications are subject to change without prior notice.



Fully modularized design and integrated power solutions



Hot-swappable modules for easy and quick maintenance



Optional inbuilt battery modules



User-friendly 10" color touch screen