Delta UPS Modulon Family

DPH Series, Three Phase, 20-200 kVA, 380/400/415 Vac

Power Perfected, All Within 42U!

Experience the internationally celebrated Delta Modulon DPH Series UPS—a true standout for data centers worldwide. Renowned for its world leading power module density and unparallel reliability, this UPS has earned broad recognition in recent years.

Introducing an ingenious 80 kVA solution with an integrated battery, thoroughly nested within a 42U rack. Need more power? Explore 200 kVA options when your business surges forward. You are ready to adapt as your business progresses!

Low Total Cost of Ownership

- AC-AC efficiency up to 96.5 % and Eco mode to 99 % optimize energy costs
- Activate Green mode with a load aggregation function to boost system efficiency
- Remarkable power density of 50 kW per module in a 3U height (20 kW / 2U height) offering best space utilization
- Unleash the on-site full-load and full-battery test. No need for load banks, no set-ups streamline the process and cut costs effectively

Maximum Uptime

- Redundant components and dual CAN bus deliver the highest system availability and thwart single point of failure
- Power and control modules self-synchronize to prevent downtime from control module failure
- Fully modularized design and hot swappable STS module, power module and controller card ensure minimizing Mean Time To Repair (MTTR)
- Integrated manual bypass eliminates maintenance-related downtime
- Pre-warning of key components aging reduces downtime risk (optional)

Easy Management

- Precisely meet your power backup needs now and unlock the ability to effortlessly scale up as your business flourishes
- Color 10” touchscreen provides easy access to UPS information and streamlined operation
- Intuitive LCD integrated UPS system, inbuilt battery and environment information visible and easy to manage
- Built-in USB port provides effortless connectivity to over 10,000 data logs for event diagnosis

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Technical Specifications

Model		DPH-80K-FR	DPH-200K-FR
Power Rating		20/ 40/ 60/ 80 kVA	50/ 100/ 150/ 200 kVA
		20/ 40/ 60/ 80 kW	50/ 100/ 150/ 200 kW
Frame Size		80 kW	200 kW
Parallel Configuration		Up to 8 units	
INPUT			
Nominal Voltage		380/ 400/ 415 Vac, 3P4W+PE	
Voltage Range		176~276/ 305~477 Vac (Full Load) 132~176/ 229~305 Vac (De-rated 70 % Load)	
Frequency		40~70 Hz	
Total Harmonic Distortion (THDi)		< 3 %	
Power Factor		> 0.99 (full load)	
OUTPUT			
Nominal Voltage		380/ 400/ 415 Vac, 3P4W+PE	
Voltage Regulation		±1 % (static)	
Frequency		50/60 ± 0.05 Hz	
Total Harmonic Distortion (THDv)		≤ 2 % (Linear Load), ≤ 5 % (Non-linear Load)	
Power Factor		1.0	
Overload Capability		≤ 125 %: 10 minutes; ≤ 150 %: 1 minutes; > 150 %: 1 sec	
Current Crest Ratio		3:1	
EFFICIENCY			
Online Mode		Up to 96.5 %	
ECO Mode		Up to 99 %	
BATTERY			
Battery Type		VRLA/ Vented lead-acid/ Lithium-ion battery	
Nominal Voltage		±240 Vdc	
Quantity		40 pcs	30[1]~46 pcs (configurable)
Maximum Charge Current		32 A	75 A
Internal Battery		Optional, up to 5 strings	N/A
External Battery Cabinet (Optional)		Parallel to 4 cabinets[2]	
COMMUNICATION INTERFACE			
Display		10” Color Touch Screen	
Port		MODBUS (RS-485) port, REPO, EMS/Console (RJ45), BMS (RS-485), Ethernet port x1, Input dry contact x4, Output dry contact x6, External battery temperature detection x4, External switch/breaker status dry contact x4	
Protocols		SNMP, MODBUS RTU, MODBUS TCP/IP, HTTP(S), SNTP, SMTP, Syslog, BOOTP, DHCP	
PHYSICAL			
Dimensions (W x D x H)		600 x 1109 x 2000 mm	
Net Weight	UPS System	269 kg	275 kg
	Per Power Module	18 kg	36.9 kg
	Per Battery Module[2]	32.6 kg	
ENVIRONMENT			
Operating Temperature		0 to 40 °C	
Humidity		0~95 % (non-condensing)	
Audible Noise		< 65 dBA	< 75 dBA
Altitude		0~1,000 m	
Storage Temperature		-20 to +70 °C	
Ingress Protection		IP20	
CONFORMANCE			
Safety		CE, BSMI, RCM	
EMC		IEC 62040-2	
Performance		IEC 62040-3	
Sustainability		RoHS, REACH	
FEATURES			
Burn-in Test without Load Bank		Standard	
Cold Start Function		Standard	
Frequency Conversion		Standard	
Failure Prediction		Standard	
Software Integration with Delta Lithium Battery BMS		Standard	

(1) 30-32 pcs require load derating

(2) Up to 10 battery strings per cabinet, featuring 40 pcs x12V 9Ah VRLA batteries each; 4 battery modules compose 1 string

All specifications are subject to change without prior notice.

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