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

Fame Size	Model		DPH-80K-FR	DPH-200K-FR
So kW	Power Rating		20/ 40/ 60/ 80 kVA	50/ 100/ 150/ 200 kVA
Parallel Configuration			20/ 40/ 60/ 80 kW	50/ 100/ 150/ 200 kW
Note	Frame Size		80 kW	200 kW
	Parallel Configuration		Up to 8 units	
	INPUT			
132-T/P6 / 229-305 Vac (De-rated 70 % Load)	Nominal Voltage		380/ 400/ 415 Vac, 3P4W+PE	
132-T/P6 / 229-305 Vac (De-rated 70 % Load)	-			
Total Harmonic Distortion (THDI)	. o.cago . carigo			
Sever Factor	Frequency		40~70 Hz	
Nominal Voltage 380/ 400/ 415 Var.; 3P4W+PE	Total Harmonic Distortion (THDi)		< 3 %	
Sominal Voltage	Power Factor		> 0.99 (full load)	
Sominal Voltage	OUTPUT			
Sign8	Nominal Voltage		380/ 400/ 415 Vac, 3P4W+PE	
Sign8	Voltage Regulation			
Total Harmonic Distortion (THDv)				
20				
S 125 %: 10 minutes; s 150 %: 1 minutes; > 150 %: 1 sec				
Surrent Crest Ratio 3:1				
Up to 96.5 %				
Deline Mode			5.1	
Up to 99 %	EFFICIENCY Online Made		11. A. 00 F W	
BATTERY Sattery Type VRILA/ Vented lead-acid/ Lithium-ion battery Nominal Voltage Quantity 40 pcs 30 m-46 pcs (configurable) 32 A 75 A 75 A 76 Nominal Voltage Quantity 40 pcs 30 m-46 pcs (configurable) 32 A 75			'	
VRLA/ Vented lead-acid/ Lithium-ion battery VRLA/ Vented lead-ac	ECO Mode		Up to 99 %	
Maximum Charge	BATTERY			
Augustity	Battery Type		VRLA/ Vented lead-acid/ Lithium-ion battery	
Maximum Charge Current 132 A 75 B	Nominal Voltage		±240 Vdc	
Optional, up to 5 strings	Quantity		40 pcs	30 ⁽¹⁾ ~46 pcs (configurable)
External Battery Cabinet (Optional) COMMUNICATION INTERFACE Display 10" Color Touch Screen MOBBUS (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 Physical Dimensions (W x D x H) Net Weight UPS System Per Power Module Per Battery Module Per S % (non-condensing) Audible Noise Altitude 0-1,000 m Storage Temperature -20 to +70 °C IP20 CONFORMANCE Safety CE, BSMI, RCM IEC 62040-2 Per Gromance Sustainability PEATURES Burn-in Test without Load Bank Standard Failure Prediction Standard Failure Prediction Standard Failure Prediction Standard Failure Prediction Standard	Maximum Charge Current		32 A	75 A
DOMMUNICATION INTERFACE Display Port MODBUS (RS-485) port, REPO, EMS/Console (RJ45), BMS (RS-485), Ethernet port x1, input dry contact x4, Output dry contact x4, output dry contact x4 switch/breaker status dry contact x4 switch/breaker status dry contact x4 Protocols SNMP, MODBUS RTU, MODBUS TCP/IP, HTTP(S), SNTP, SMTP, Syslog, BOOTP, DHCP MODBUS RTU, MODBUS TCP/IP, HTTP(S), SNTP, SMTP, Syslog, BOOTP, DHCP MODBUS RTU, MODBUS TCP/IP, HTTP(S), SNTP, SMTP, Syslog, BOOTP, DHCP MODBUS RTU, MODBUS TCP/IP, HTTP(S), SNTP, SMTP, Syslog, BOOTP, DHCP MODBUS RTU, MODBUS TCP/IP, HTTP(S), SNTP, SMTP, Syslog, BOOTP, DHCP MODBUS RTU, MODBUS TCP/IP, HTTP(S), SNTP, SMTP, Syslog, BOOTP, DHCP MODBUS RTU, MODBUS TCP/IP, HTTP(S), SNTP, SMTP, Syslog, BOOTP, DHCP MODBUS RTU, MODBUS TCP/IP, HTTP(S), SNTP, SMTP, Syslog, BOOTP, DHCP MODBUS RTU, MODBUS TCP/IP, HTTP(S), SNTP, SMTP, Syslog, BOOTP, DHCP MODBUS RTU, MODBUS TCP/IP, HTTP(S), SNTP, SMTP, Syslog, BOOTP, DHCP MODBUS RTU, MODBUS TCP/IP, HTTP(S), SNTP, SMTP, Syslog, BOOTP, DHCP MODBUS RTU, MODBUS TCP/IP, HTTP(S), SNTP, SMTP, Syslog, BOOTP, DHCP MODBUS RTU, MODBUS TCP/IP, HTTP(S), SNTP, SMTP, Syslog, BOOTP, DHCP MODBUS RTU, MODBUS RTU, MODBUS TCP/IP, HTTP(S), SNTP, SMTP, Syslog, BOOTP, DHCP MODBUS RTU, MODBUS RTU, MODBUS TCP/IP, HTTP(S), SNTP, SMTP, Syslog, BOOTP, DHCP MODBUS RTU, MODBUS RTU, MODBUS TCP/IP, HTTP(S), SNTP, SMTP, Syslog, BOOTP, DHCP MODBUS RTU, MODBUS RTU, MODBUS TCP/IP, HTTP(S), SNTP, SMTP, Syslog, BOOTP, DHCP MODBUS RTU, MODBUS RTU, MODBUS TCP/IP, HTTP(S), SNTP, SMTP, Syslog, BOOTP, DHCP MODBUS RTU, MODBUS RTU, MODBUS TCP/IP, HTTP(S), SNTP, SMTP, Syslog, BOOTP, DHCP MODBUS RTU, MODBUS RTU, MODBUS TCP/IP, HTTP(S), SNTP, SMTP, Syslog, BOOTP, DHCP MODBUS RTU, MODBUS RTU, MODBUS TCP/IP, HTTP(S), SNTP, SMTP, SWID, SNTP, SWTP, SWT	Internal Battery		Optional, up to 5 strings	N/A
10" Color Touch Screen 10" Color Touch Screen MODBUS (RS-485) port, REPO, EMS/Console (RJ45), BMS (RS-485), Ethernet port x1, Input dry contact x4, Output dry contact x4 output x4 ou	External Battery Cabinet (Optional)		Parallel to 4 cabinets(2)	
10" Color Touch Screen 10" Color Touch Screen MODBUS (RS-485) port, REPO, EMS/Console (RJ45), BMS (RS-485), Ethernet port x1, Input dry contact x4, Output dry contact x4 output x4 ou	COMMUNICATION INTER	FACE		
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 x6, External battery temperature detection x4, External switch/breaker status dry contact x6, External battery temperature detection x4, External switch/breaker status dry contact x6, External battery temperature detection x4, External switch/breaker status dry contact x6, External battery temperature with contact x6, External battery contact x6, External b	Display		10" Color Touch Screen	
contact x4, Output dry contact x6, External battery temperature detection x4, External switch/breaker status dry contact x6 SNMP, MODBUS RTU, MODBUS TCP/IP, HTTP(S), SNTP, SMTP, Syslog, BOOTP, DHCP PHYSICAL Dimensions (W x D x H) Net Weight UPS System Per Power Module Per Battery Module Per Ba	Port			
Protocols Physical Dimensions (W x D x H) Net Weight UPS System Per Power Module Per Battery Module(2) Per Battery Module(2) Per Battery Module(2) Poperating Temperature Humidity Audible Noise Altitude Storage Temperature IP20 CONFORMANCE Safety ENC ENC Per Gave A Significant Enc Gave A Significant Enc Gave A Significant Enc Gave A Significant Enc Gave A Standard St			contact x4, Output dry contact x6, External battery temperature detection x4, External switch/breaker status dry contact x4	
PHYSICAL Dimensions (W x D x H) 600 x 1109 x 2000 mm				
Dimensions (W x D x H)	Protocols		SNMP, MODBUS RTU, MODBUS TCP/IP, HTTP(S), SNTP, SMTP, Syslog, BOOTP, DHCP	
Net Weight	PHYSICAL			
Per Power Module Per Battery Module ⁽²⁾ 32.6 kg Senvironment Operating Temperature Oto 40 °C Humidity O~95 % (non-condensing) Addible Noise Altitude O~1,000 m Storage Temperature Operation IP20 CONFORMANCE Safety CE, BSMI, RCM IEC 62040-2 Performance Sustainability ROHS, REACH FEATURES BURN-In Test without Load Bank Cold Start Function Frequency Conversion Frequency Conversion Standard Standard Standard Standard Standard Standard Standard	Dimensions (W x D x H)		600 x 1109 x 2000 mm	
Per Battery Module ⁽²⁾ 32.6 kg ENVIRONMENT Operating Temperature 0 to 40 °C Humidity 0~95 % (non-condensing) Audible Noise 4 65 dBA 0~1,000 m Storage Temperature -20 to +70 °C IP20 CONFORMANCE Safety CE, BSMI, RCM IEC 62040-2 Performance Sustainability ROHS, REACH FEATURES Burn-in Test without Load Bank Cold Start Function Standard Frequency Conversion Standard Frequency Conversion Standard Standard Standard Standard Standard Standard	Net Weight	UPS System	269 kg	275 kg
Per Battery Module ⁽²⁾ 32.6 kg ENVIRONMENT Operating Temperature 0 to 40 °C Humidity 0~95 % (non-condensing) Audible Noise 4 65 dBA 0~1,000 m Storage Temperature -20 to +70 °C IP20 CONFORMANCE Safety CE, BSMI, RCM IEC 62040-2 Performance Sustainability ROHS, REACH FEATURES Burn-in Test without Load Bank Cold Start Function Standard Frequency Conversion Standard Frequency Conversion Standard Standard Standard Standard Standard Standard		Per Power Module	18 kg	36.9 kg
### Coperating Temperature		Per Battery Module(2)	_	I and the second
Operating Temperature 0 to 40 °C Humidity 0~95 % (non-condensing) Audible Noise < 65 dBA	ENI/IDONMENT	•	_	
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			0 to 40 °C	
Audible Noise < 65 dBA < 75 dBA Altitude	· · · · · · · · · · · · · · · · · · ·			
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	-		_	< 75 dB4
Storage Temperature -20 to +70 °C Ingress Protection IP20 CONFORMANCE Safety CE, BSMI, RCM EMC IEC 62040-2 Performance Sustainability ROHS, REACH FEATURES Burn-in Test without Load Bank Cold Start Function Standard Frequency Conversion Failure Prediction Standard Standard Failure Prediction Standard				(/ J dDA
IP20 CONFORMANCE Safety CE, BSMI, RCM EMC IEC 62040-2 Performance Sustainability ROHS, REACH FEATURES Burn-in Test without Load Bank Cold Start Function Standard Frequency Conversion Failure Prediction IP20 IP20 CE, BSMI, RCM IEC 62040-2 IEC 62040-2 Sustainability ROHS, REACH Standard Standard Standard Standard Standard Standard Standard Standard Standard			· ·	
CONFORMANCE Safety CE, BSMI, RCM EMC IEC 62040-2 Performance Sustainability ROHS, REACH FEATURES Burn-in Test without Load Bank Cold Start Function Standard Frequency Conversion Failure Prediction Standard Standard Standard				
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	_		IP2U	
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	CONFORMANCE			
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	Safety			
RoHS, REACH FEATURES Burn-in Test without Load Bank Cold Start Function Standard Frequency Conversion Failure Prediction Standard Standard	EMC			
Burn-in Test without Load Bank Cold Start Function Standard Frequency Conversion Failure Prediction Standard Standard	Performance		IEC 62040-3	
Burn-in Test without Load Bank Standard Cold Start Function Standard Frequency Conversion Standard Failure Prediction Standard	Sustainability		RoHS, REACH	
Burn-in Test without Load Bank Standard Cold Start Function Standard Frequency Conversion Standard Failure Prediction Standard	FEATURES			
Frequency Conversion Standard Standard		d Bank	Standard	
Frequency Conversion Standard Standard	Cold Start Function		Standard	
Failure Prediction Standard			Standard	
		Delta Lithium Rattery RMS	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.



Delta Group



Delta Power Solutions



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