

# Modulon DPH Series UPS

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

## Power Perfected, All Within 42U!

Experience unmatched power solutions with our advanced 80K and 200K UPS models. The DPH-80K-FR is crafted to seamlessly integrate a battery in a 42U rack, and both models boast high power density, exceptional reliability, and fault tolerance—perfect for small and medium data centers. Enjoy exceptional energy efficiency with up to 96.5% AC-AC efficiency and an exclusive green mode, ensuring optimal system performance. Opt for our modular UPS for unparalleled flexibility that scales seamlessly with your growing business.



## Low Total Cost of Ownership

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- 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

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- 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

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- 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



IT



Telecom



Industrial



Transportation



Financial



Government



## 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	305-477 Vac (100% load); 229-305 Vac (with derating to 70-100% load)		
Frequency	40-70 Hz		
Total Harmonic Distortion (THDi)	< 3%		
Power Factor	> 0.99 (100% load)		
OUTPUT			
Nominal Voltage	380/400/415 Vac, 3P4W+PE		
Voltage Regulation	±1% (static)		
Frequency	50/60 ± 0.05 Hz		
Total Harmonic Distortion (THDv)	≤ 1% (linear load), ≤ 5% (non-linear load)		
Power Factor	1		
Overload Capability	≤ 125%: 10 minutes; ≤ 150%: 1 minute; > 150%: 1 sec		
Current Crest Ratio	3:1		
EFFICIENCY			
Online Mode	Up to 96.5%		
ECO Mode	Up to 99%		
BATTERY			
Battery Type	VRLA	VRLA/Lithium-ion	
Nominal Voltage	±240 Vdc		
Quantity	40 pcs	30 <sup>(1)</sup> -46 pcs (configurable, 12V VRLA battery)	
Maximum Charge Current	32 A	75 A	
Internal Battery	Optional, up to 5 strings	N/A	
External Battery Cabinet (Optional)	Parallel to 4 cabinets <sup>(2)</sup>		
COMMUNICATION INTERFACE			
Display	10-inch color touchscreen		
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 <sup>(2)</sup>	32.6 kg	
ENVIRONMENT			
Operating Temperature	0 to 40°C		
Humidity	0-95% (non-condensing)		
Altitude	0-1000 m		
CONFORMANCE			
Safety	CE, UKCA, RCM, BSMI		
EMC	IEC 62040-2		
Performance	IEC 62040-3		
Sustainability	RoHS, REACH		
FEATURES			
Sequential Start for Generator	Standard		
Burn-in Test without Load Bank	Standard		
Cold Start Function	Standard		
Frequency Conversion	Standard		
Failure Prediction	Standard		
Software Integration with Delta Lithium Battery BMS	Optional		

(1) 30-34 batteries must be set up by authorized personnel, with load derating required.

(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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