

Modulon DPH Gen3 Series UPS

Three-phase, 125-2000 kVA, 400 Vac

1250kW in 1m²- Power Beyond Industry Limits

The DPH Gen3 modular UPS delivers exceptional performance, providing a robust 1250kW of power in just 1m²—marking a premium milestone in power density and space efficiency. By integrating advanced SiC MOSFET technology, the DPH Gen3 achieves a top-tier 97.5% online efficiency, perfectly balancing massive capacity output with the mission-critical reliability essential for modern data centers. This solution is engineered to optimize your TCO by slashing operational energy costs while liberating the valuable white space your facility needs to scale for the future.



Optimized Cost and Space

- **Optimized ROI & Space Utility:** Leverages our premium 125kW/3U module density to drastically reduce infrastructure footprint, clearing maximum white space for revenue-generating IT hardware
- **Unrivalled Efficiency:** Achieve up to 97.5% AC-AC efficiency and 99% in Clean Mode to slash energy costs
- **Intelligent Peak Shaving:** Lower utility cost by strategically shifting consumption to off-peak hours
- **Sustainable Testing:** Utilize internal Energy Recycle Mode for full-load testing without the waste or cost of external load banks

Engineered for Mission-Critical Uptime

- **Inbulit Synchronized Multiple Bus:** Dual source management ensures seamless power transition
- **Generator-Friendly:** Hybrid mode prevents generator shutdowns and avoids the need for expensive infrastructure upgrades
- **Superior Overload Resilience:** Outperforms the competition with a 110% continuous overload capacity

Designed for Modern Management

- **Rapid Serviceability:** Front-access, hot-swappable design for power modules, STS module and communication interface dramatically reduce MTTR (Mean Time to Repair)
- **Smart Monitoring:** Manage power and Delta Lithium-ion batteries via a 10-inch graphical touchscreen



IT



Telecom



Industrial



Transportation



Financial



Government



Technical Specifications

Model	DPH-G3-625K-MD	DPH-G3-1250K-MD	DPH-G3-2000K-MD ⁽¹⁾
Power Rating	125-625 kVA 125-625 kW	125-1250 kVA 125-1250 kW	125-2000 kVA 125-2000 kW
System Capacity	625 kW	1250 kW	2000 kW
Power Module Rating	125 kW		
Power Module Slots	6 (N+1)	10	16
Parallel Configuration	Up to 8 units		
INPUT			
Nominal Voltage	220/380, 230/400, 240/415 Vac; 3P4W+PE		
Voltage Range	323-477 Vac (100% load); 249-323 Vac (with derating to 70% load)		
Frequency	40-70 Hz		
Total Harmonic Distortion (THDi) ⁽²⁾	< 1.5% (linear load) < 2% (non-linear load)		
Power Factor	> 0.99 (100% load)		
Short Circuit Withstand Current	100 kA		
OUTPUT			
Nominal Voltage	220/380, 230/400, 240/415 Vac; 3P4W+PE		
Voltage Regulation	±1% (static); ±3% (dynamic)		
Frequency	50/60 ± 0.05 Hz		
Total Harmonic Distortion (THDv)	< 1% (linear load); < 3% (non-linear load)		
Power Factor	1		
Permitted Load Power Factor	Optional, 0.5 leading to 0.5 lagging without derating		
Overload Capability	< 110%: continuously ⁽³⁾ ; ≤ 125%: 10 min; ≤ 150%: 1 min		
Current Crest Ratio	3:1		
EFFICIENCY			
Online Mode	Up to 97.5%		
ECO Mode	Up to 99%		
Clean Mode (VI Mode)	Up to 99%		
BATTERY			
Battery Type	VRLA/Lithium-ion		
Nominal Voltage	480 Vdc		
Quantity	40 pcs, 32 ⁽⁴⁾ -48 pcs configurable, 12V VRLA battery)		
Maximum Charge Current/per Module	40 A		
COMMUNICATION INTERFACE			
Display	10-inch color LCD touchscreen		
Port	RS-232, RS-485, USB, RJ45, REPO		
Protocols	SNMP, Modbus, HTTP(S)		
PHYSICAL			
Dimensions (W x D x H)	800 x 1000 x 2000 mm	1000 x 1000 x 2060 mm	2000 x 1000 x 2200 mm
Net Weight	System 530 kg	898 kg	⁽⁵⁾
	Power Module 60 kg		
ENVIRONMENT			
Operating Temperature	0 to 40°C		
Humidity	0-95% (non-condensing)		
Altitude	0-1000 m		
CONFORMANCE			
Safety	CE, RCM		
EMC	IEC 62040-2		
Performance	IEC 62040-3		
Seismic Rating	GR63-Zone4		
Sustainability	RoHS, REACH		

(1) Upcoming product

(2) When input THDv < 1%

(3) Operation temperature < 30°C

(4) 32-38 pcs requires load derating

(5) To be released

All specifications are subject to change without prior notice.



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