

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 1250kW of power in just 1m² —setting a new benchmark for power density and space efficiency. By integrating advanced SiC MOSFET technology, the DPH Gen3 balances unrivaled efficiency with mission-critical reliability. It's a solution engineered to slash operational costs while liberating the valuable real estate your facility needs to scale.



Optimized Cost and Space

- **Optimized ROI:** Leverage industry leading power density (125kW in 3U) to reduce footprint and clear space for more revenue generating hardware
- **Unrivaled 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

- **Inubulit 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 modules 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	DPH-G3-1250K	DPH-G3-2000K ⁽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
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	⁽⁵⁾
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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