

ИБП Eaton 9PHD Marine - брошюра на продукцию. Юниджет

Постоянная ссылка на страницу: https://www.uni-jet.com/catalog/ibp/on-line-ibp/eaton-9phd/

Eaton 9PHD Marine UPS

30-200 kW



Designed, Manufactured and Tested in Finland



Strong and Smart Power Protection Designed and Certified for Marine and Offshore

Designed for marine and offshore environments

- Marine certificate from any marine classification society
- Marine vibration tested units
- · Halogen free cables
- IP23 protection
- Conformally coated PCB boards
- Cable area designed to support marine cabling practices
- Vibration dampers and installation brackets for floor and wall
- Door handle, stopper and triangle key included

Strong design for demanding environments

- Protection against dirt, dust, water and moisture with cover options up to IP54
- 1.5mm cover plates for robust use
- Protection for touch screen display

Smart technology for maximizing reliability

- Large touch screen display for easy operation and reduced risk of human error
- Modular design allows building fault tolerant N+1 units
- Redundant monitored cooling fans in each power module
- Battery start feature
- Eaton's unique Hot Sync wireless paralleling for building n+1 systems with several UPS units

Smart technology for minimizing operating costs

- The 9PHD UPS sets new standards with an operating efficiency level up to 97% in double conversion mode
- > 99% superior efficiency is delivered in Energy Saver System mode (ESS)
- Power factor 1 increases unit power by 10-20% compared to average UPS

Easy deployment for optimizing installation costs

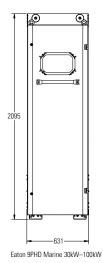
- Front access for installation and service
- Cabinet supports use of halogen free cables, double cables and large cables for installation
- Lifting lugs included for easier unit handling during installation
- Suitable for 3-wire and 4-wire networks and voltage range 380V-480V without transformers
- Small footprint due compact power electronics and internal transformer options

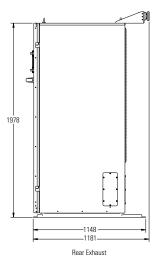
Eaton 9PHD Marine UPS 30-200 kW

Technical specifications

General		
UPS output power rating (1.0 p.f.)	30, 40, 50, 80, 100,	
	120, 150,160, 200 kW	
Efficiency in double conversion mode	Up to 97%	
Efficiency in Energy Saver System (ESS)	>99%	
Inverter/rectifier topology	Transformer-free IGBT with PWM	
Audible noise	30–50 kW: <	60 dBA
	80–200 kW: <	65 dBA
	ESS operation: <	47 dBA
Ambient temperature	0°C to 45°C at sea lo	evel,
	higher temperatures	are optional
Ingress protection	IP23, Optional: IP33;IP54	
Input		
Input wiring	3ph + N + PE / 3ph + PE	
Nominal voltage rating (configurable)	380 V-480 V, 50/60 Hz	
With optional transformer	208 V- 690 V, 50/60 Hz	
Input voltage range	Low -15% at 100%	%, if voltage > 440 V +10% 5 load, -40% at 50% load
	without battery disc Bypass +10% - (-15	-
Input frequency range	40-72 Hz	70)
Input Power Factor	0.99	
Input ITHD	30 kW: < 4.5% 40-200 kW: < 3%	
Soft start capability	Yes	
Internal backfeed protection	Yes	
Battery		
Battery type	VRLA, Ni-Cd	
Charging method	ABM technology or Float	
Temperature compensation	Optional	
Battery nominal voltage (VRLA)	From 432 V (36 x 12 V, 216 cells) to 480 V (40 x 12 V, 240 cells) Note: Strings with different battery voltage may not be paralleled!	
Charging current maximum*	30–50 kW 80–100 kW 120–150 kW 160–200 kW	29.3 A 58.6 A 87.9 A 117.2 A
Battery start capability	Yes	

^{*} when load level ≤ 40 kW/UPM





Output wiring	3ph + N + PE/ 3ph + PE	
Nominal voltage rating (configurable)	380 V-480 V, 50/60 Hz	
With optional transformer	208 V- 690 V, 50/60 Hz	
Output UTHD	< 1% (100% linear load)	
	< 5% (reference non-linear load)	
Rated output power factor	1.0	
Permitted load power factor	0.8 lagging - 0.8 leading	
Overload on inverter	10 min 102-110%;	
	60 sec 111-125%;	
	10 sec 126-150%	
	300 ms > 150%.	
	On battery mode 300 ms > 126%	
Overload when bypass available	Continuous < 125%, 10 ms 1000%	
	Note: Bypass fuses may limit the overload capability!	
Accessories		

Output

Accessories for UPS:

Internal transformers; Cabinet protection IP33, IP54; ATS automatic transfer switch; Single feed kit; Earth fault monitoring; 24V Emergency Power Off (EPO); Special system voltages

Marine battery cabinets with long-life batteries; Matching transformer cabinet for one or two transformers; External maintenance bypass switch.

Communication options:

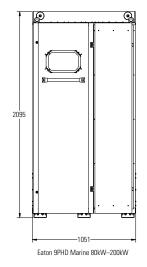
Web/SNMP; ModBus/Jbus; Industrial Relay

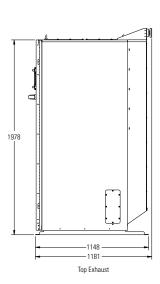
Communications		
MiniSlot	4 communication bays	
Serial ports	Built-in host and device USB	
Relay inputs/outputs	5 relay inputs and dedicated EPO	
	1 relay output	

Compliance with standards		
Safety (CB certified)	IEC 62040-1	
EMC	IEC 62040-2	
Performance	IEC 62040-3	

Marine class certificates are available from any class example: DNV, ABS, Lloyds Register Bueray

Due to continuous product imrovement programmes, specifications are subject to change without notice.





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