Eaton 9155M UPS

Uninterruptible Power System for Marine Applications



Features

- · Compact design for saving space
- Easy to install, mounting rails can be bolted or welded to the deck/bulk head
- IP22 protection class
- · Vibration absorbers under and back of the cabinet
- · Maintenance from the front
- Active, power factor corrected rectifier, power factor 0.99, harmonics less than 5% THD(i)
- High performance PWM inverter providing output power factor of 0.9
- · Internal automatic static bypass switch
- · Internal mechanical bypass switch
- Advanced Battery Management (ABM) for monitoring and improved battery life time
- Configurable and multilingual LCD control panel with backlit graphical mimic screen
- · Versatile connectivity options for remote monitoring
- Hot Sync redundancy/capacity up to 3+1 configuration
- Configurable to frequency converter operation (50>60Hz and 60>50Hz)

Eaton 9155M series UPSs are specially designed for marine installations. The 9155M can be used for any onboard load application in this power range. The various 9155M models are widely used to protect the operation of critical equipment such as navigation, communication, integrated bridge, ship automation and computer systems.

The 9155M enables optimal power protection for modern 0.9 p.f. rated critical equipment without the needs of oversizing. The 9155M is extremely "mains-friendly" and does not interfere with other critical equipment in the same network due to its high 0.99 input power factor and low <5% THD(i).

All models are adapted for use in the IT mains, have hardened mechanical design, an IP22 cabinet, mechanical shock absorbers and meet the classification societies' safety requirements.

The 9155M is built into one cabinet that houses all the electronics: rectifier,

inverter, static bypass and microprocessor control. This configuration allows the entire system to be controlled as one integral device. This leads to higher reliability than using separate power converters. It also saves plenty of valuable space, allowing easy installation.

Eaton's patented Hot Sync technology makes it possible to parallel one or more 9155M UPS units to increase availability. Hot Sync enables load sharing without a communication line, thus eliminating a single point of failure. The 9155M also features the unique ABM that charges batteries only when necessary, thus increasing battery life by up to 50%.

Eaton has more than 30 years of experience in supplying the marine industry with Uninterruptible Power Systems. Eaton integrates a full line of power conversion products and systems, power management software, remote monitoring, turnkey integration services and site support.



Technical specifications

Power factor

Colour

Output rating	8-10 kVA 0,9 p.f. (1-phase input), 8-15 kVA 0.9 p.f. (3-phase input)
Efficiency	up to 92%
Audible noise	<50 dB (A)

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Nominal voltage for UPS	230/400 V (3-phase input) ± 20%, 230 V (1-phase input) ± 20%			
Frequency	45-65 Hz			
Power factor	0,99 (<5% THD(i) at nominal load)			
OUTPUT				
Selectable voltage	220/230/240 VAC; 50 or 60 Hz			
Regulation	±2% static			

0.9 (e.g. 9 kW at 10 kVA)

RAL 7035, other colours on request

BATTERY

Туре	Maintenance free VRLA batteries		
Battery charging	Advanced Battery Management (ABM)		
Temp. compensation	Standard		
Battery voltage	384V (32 blocks)		
Charging current	3 A (default), max. 25 A		
Options	Isolation transformers, Long-life batteries, Hot Sync tie cabinet, XSlot connectivity (potential free relays, ModBus, Web/SNMP)		
Markings	CE, Classification survey report on request		
COMMUNICATION			
XSlot	2 communication bays		

XSlot	2 communication bays		
Serial ports	1 available		
Inputs/Outputs	2/1 programmable		

Stand-alone UPS with 1-phase input

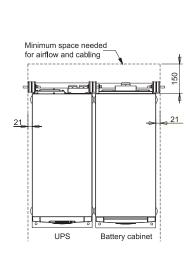
Description	Rating	Dimensions (HxWxD)	Weight with input transf	ormer
9155-8-ST-M	8 kVA / 7.2 kW	879x347x702 (+150) mm	155 kg	165 kg
9155-10-ST-M	10 kVA / 9 kW	879x347x702 (+150) mm	160 kg	170 kg

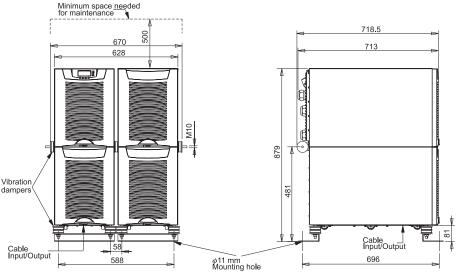
Stand-alone UPS with 3-phase input

Description	Rating	Dimensions (HxWxD)	Weight with inp	ut transformer
9155-8-NT-M	8 kVA / 7.2 kW	879x347x702 (+150) mm	155 kg	165 kg
9155-10-NT-M	10 kVA / 9 kW	879x347x702 (+150) mm	160 kg	170 kg
9155-12-NT-M	12 kVA / 10.8 kW	879x347x702 (+150) mm	165 kg	175 kg
9155-15-NT-M	15 kVA / 13.5 kW	879x347x702 (+150) mm	165 kg	175 kg

External battery cabinets

Description	Rating	Back-up	Dimensions (HxWxD)	Weight
9X55-BAT-M-64x7Ah	2x32x7 Ah	See runtime spec.	879x347x699 (+153) mm	205 kg
9X55-BAT-M-96x7Ah	3x32x7 Ah	See runtime spec.	1277x347x699 (+153) mm	320 kg





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Denmark: 45.3686.7910 Finland: 358.94.52.661 France: 33.1.6012.7400 Germany: 49.0.7841.604.0 Italy: 39.02.66.04.05.40 Norway: 47.23.03.65.50 Portugal: 55.11.3616.8500 Sweden: 46.8.598.940.00 United Kingdom: 44.1753.608.700



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