## Eaton 9155M and 9355M UPS 8 - 15 kVA





### Advanced vessel or rig power protection for:

- Navigation systems
- Communication systems
- Ship automation
- Computer systems
- Integrated bridge



#### **Double conversion UPS**

#### Qualified design for marine and offshore environment

- DNV type approved UPS
- BV type approved UPS
- ABS design assessed
- 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 at the back of the cabinet
- Maintenance from the front

#### Premium power performance

- Double conversion provides the highest level of protection available by isolating the output power from all input anomalies.
- Active power factor correction (PFC) provides 0,99 input power factor and less than 4,5% ITHD, thus eliminating interference with other critical equipment in the same network and enhancing compatibility with generators.
- The UPS is optimized for protecting modern 0,9 p.f. rated IT equipment without the need to oversize.

#### **True reliability**

- Patented Powerware HotSync<sup>®</sup> technology makes it possible to parallel up to four UPSs to increase availability or add capacity. The technology enables load sharing without any communication line, thus eliminating single point of failure.
- ABM<sup>®</sup> technology charges batteries only when necessary, preventing batteries corrosion and prolonging batteries service life by up to 50%.
- Internal automatic static bypass switch
- Internal mechanical bypass switch

#### **Extensive configurability**

- Configurable to frequency converter operation (50 → 60Hz and 60 → 50Hz)
- A multilingual graphical LCD display makes possible to monitor the UPS status easily.
- Wide software and connectivity options provide monitoring, management and shutdown capabilities over network.

#### Cost savings and sustainability

- Small footprint saves valuable space in ship and rig installations.
- Possibility for internal transformer or batteries eliminate the need for costly and space-consuming external cabinets.
- A single technical platform used in Eaton's UPS products guarantee easy upgrades and similarity in service, thus lowering total cost of ownership.
- A range of service agreement options can be easily customized for customers' needs and budget.
- Eaton uses sustainable materials and highly efficient manufacturing technology, thus generating dramatic savings in carbon footprint as compared to competitive UPS systems.

# Eaton 9155M/9355M UPS 8-15 kVA

### TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFIC	Anono			
UPS output power rating (0,9 p.f.)   kVA 8 10 12 15		Output UTHD	<3% (100% linear load); <5% (reference non linear load)	
	10.8 13.5	Output power factor	0,9 (e.g. 9 kW at 10 kVA)	
General	10,0	Permitted load power factor	0,7 lagging - 0,8 leading	
Efficiency in double		Battery		
conversion mode (full load)	92% (without transformer)	Туре	Maintenance free VRLA batteries, NiCd	
Efficiency in double	00% (without transformer)	Charging method	ABM technology or Float	
conversion mode (half load)	90% (without transformer)	Temperature compensation	Optional	
Distributed parallelling with Hot Sync technology	4	Battery nominal voltage (lead-acid)	384 V (32x12 V, 192 cells)	
Field upgradeable Inverter/rectifier topology	yes transformer-free IGBT with PWM	Charging current / Model	Default 3 A *Max 30 A	
Audible noise	<50 dB	*May be limited by maximum UPS input current rating		
Colour	RAL 7035	Accessories		
Input			Isolation transformer, long-life batteries, external	
Nominal voltage rating (configurable)	380, 400, 415 V 50/60 Hz		battery cabinets, UPS Center (input, bypass, distribution), X-Slot connectivity (Web/SNMP, MadBue (Jhua, Balay, Jlat Suna, Viewel/IPS, X	
With internal transformer	(9155): e.g. 230, 400, 440, 480, 690V		ModBus/Jbus, Relay, Hot Sync, ViewUPS-X remote display), Hot Sync parallel tie cabinet,	
With external transformer	(9355): e.g. 230, 400, 440, 480, 690V		integrated manual bypass, external maintenance	
Input voltage range	Low -20% at 100% load/-50% at 50% load without battery discharge; High +10% /max +20%	Communications	bypass switch	
Input frequency range	45-65 Hz	X-Slot	2 communication bays	
Input power factor	0,99	Serial ports	1 available	
Input ITHD	less than 4,5%	Relay inputs/outputs	2/1 programmable	
Soft start capability	Yes	Compliance with standards		
Internal backfeed protection	Yes	Safety	IEC 62040-1, IEC 60950-1	
Output		EMC	IEC 62040-2, IEC 60945	
Nominal voltage rating (configurable)	380, 400, 415 V 50/60 Hz	Performance	IEC 62040-3	
With external transformer	(9155): e.g. 230, 400, 440, 480, 690V	Approvals	CE, DNV Type Approval, BV Type Approval and ABS PDA	
With internal transformer	(9355): e.g. 230, 400, 440, 480, 690V	Other classification survey r		

#### Stand-alone UPS with 1-phase input

Description	Rating	Dimensions (HxWxD)	Weight with input transformer (net/gross)
9155-8-ST-M	8 kVA / 7.2 kW	960x313x714 (+150 mm)	170/190 kg
9155-10-ST-M	10 kVA / 9 kW	960x313x714 (+150 mm)	170/190 kg
Stand-alone UPS with 3-p	hase input		
Description	Rating	Dimensions (HxWxD)	Weight with input transformer (net/gross)
9155-8-NT-M	8 kVA / 7.2 kW	960x313x714 (+150 mm)	170/190 kg
9155-10-NT-M	10 kVA / 9 kW	960x313x714 (+150 mm)	170/190 kg
9155-12-NT-M	12 kVA / 10.8 kW	960x313x714 (+150 mm)	170/190 kg
9155-15-NT-M	15 kVA / 13.5 kW	960x313x714 (+150 mm)	170/190 kg

#### **External battery cabinets** Dimensions (HxWxD) Weight (net/gross) Description Back-up Rating 9X55-BAT-M-64x7Ah 2x32x7 Ah See runtime spec. 880x347x718 (+150 mm) 217/237 kg 9X55-BAT-M-96x7Ah 3x32x7 Ah See runtime spec. 1278x347x718 (+150 mm) 323/348 kg











www.eaton.com/powerquality/marine

In the interests of continuous product improvement all specifications are subject to change without notice.