

### ИБП Eaton 9355 Marine - Eaton 9155 Marine and 9355 Marine UPS 8-15 kVA - Листовка

Постоянная ссылка на страницу: https://eaton-power.ru/catalog/tower/eaton-9355-marine/

# 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® 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® 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**

UPS output power rating (0.9 p.f.)           kVA         8         10         12         15           kW         7,2         9         10,8         13,5           General           Efficiency in double conversion mode (full load)           92% (without transformer)           Efficiency in double conversion mode (half load)           Distributed parallelling with Hot Sync technology           4           Field upgradeable yes Inverter/rectifier topology           Inverter/rectifier topology           RAL 7035           Input Input           Nominal voltage rating (configurable)           380, 400, 415 V 50/60 Hz           With external transformer         (9155): e.g. 230, 400, 440, 480, 690V           With requency range Low -20% at 100% load/-50% at 50% load without battery discharge; High +10% /max +20%           Input power factor Upse Input ITHD Upse Insert capability Yes Internal backfeed protection Yes Upse Inverted Face Protection Yes Upse Input power face Input Power	IIPS ou	tnut nev	ver rating (0	9 n f \			
General  Efficiency in double conversion mode (full load)  Efficiency in double conversion mode (half load)  Distributed parallelling with Hot Sync technology  Field upgradeable yes Inverter/rectifier topology transformer-free IGBT with PWM  Audible noise <50 dB  Colour RAL 7035  Input  Nominal voltage rating (configurable)  With external transformer (9155): e.g. 230, 400, 440, 480, 690V  Low -20% at 100% load/-50% at 50% load without battery discharge; High +10% /max +20%  Input ITHD less than 4,5%  Soft start capability Yes Internal backfeed protection Yes  Output  Nominal voltage rating (280, 400, 415 V 50/60 Hz  With external transformer (9155): e.g. 230, 400, 440, 480, 690V  Low -20% at 100% load/-50% at 50% load without battery discharge; High +10% /max +20%  Input ITHD less than 4,5%  Soft start capability Yes Internal backfeed protection Yes  Output  Nominal voltage rating (configurable)  With external transformer (9155): e.g. 230, 400, 440, 480, 690V		•			15		
Efficiency in double conversion mode (full load)  Efficiency in double conversion mode (half load)  Distributed parallelling with Hot Sync technology  Field upgradeable yes Inverter/rectifier topology transformer-free IGBT with PWM  Audible noise <50 dB  Colour RAL 7035  Input  Nominal voltage rating (configurable)  With internal transformer (9155): e.g. 230, 400, 440, 480, 690V  With external transformer (9355): e.g. 230, 400, 440, 480, 690V  Input voltage range Low -20% at 100% load/-50% at 50% load without battery discharge; High +10% /max +20%  Input power factor 0,99  Input ITHD less than 4,5%  Soft start capability Yes  Internal backfeed protection Yes  Output  Nominal voltage rating (configurable)  With external transformer (9155): e.g. 230, 400, 440, 480, 690V  Weshead Rale Rale Rale Rale Rale Rale Rale Rale							
conversion mode (full load)  Efficiency in double conversion mode (half load)  Distributed parallelling with Hot Sync technology  Field upgradeable yes Inverter/rectifier topology transformer-free IGBT with PWM  Audible noise <50 dB  Colour RAL 7035  Input  Nominal voltage rating (configurable)  With internal transformer (9155): e.g. 230, 400, 440, 480, 690V  With external transformer (9355): e.g. 230, 400, 440, 480, 690V  Input voltage range Low -20% at 100% load/-50% at 50% load without battery discharge; High +10% /max +20%  Input ITHD less than 4,5%  Soft start capability Yes  Internal backfeed protection Yes  Output  Nominal voltage rating (configurable)  With external transformer (9155): e.g. 230, 400, 440, 480, 690V  Wes  Internal backfeed protection Yes  Output  Nominal voltage rating (configurable)  With external transformer (9155): e.g. 230, 400, 440, 480, 690V	Genera	ı					
conversion mode (half load)  Distributed parallelling with Hot Sync technology  Field upgradeable yes Inverter/rectifier topology transformer-free IGBT with PWM  Audible noise <50 dB  Colour RAL 7035  Input  Nominal voltage rating (configurable)  With internal transformer (9155): e.g. 230, 400, 440, 480, 690V  With external transformer (9355): e.g. 230, 400, 440, 480, 690V  Input voltage range Low -20% at 100% load/-50% at 50% load without battery discharge; High +10% /max +20%  Input power factor 0,99  Input ITHD less than 4,5%  Soft start capability Yes Internal backfeed protection Yes  Output  Nominal voltage rating (configurable)  With external transformer (9155): e.g. 230, 400, 440, 480, 690V				92%	6 (without transformer)		
Hot Sync technology Field upgradeable Inverter/rectifier topology Audible noise  Colour RAL 7035 Input Nominal voltage rating (configurable) With internal transformer (9155): e.g. 230, 400, 440, 480, 690V With external transformer (9355): e.g. 230, 400, 440, 480, 690V Input voltage range Low -20% at 100% load/-50% at 50% load without battery discharge; High +10% /max +20% Input power factor Input ITHD Iess than 4,5% Soft start capability Yes Internal backfeed protection Output Nominal voltage rating (configurable) With external transformer (9155): e.g. 230, 400, 440, 480, 690V  Wes Internal backfeed protection Yes Output With external transformer (9155): e.g. 230, 400, 440, 480, 690V				90%	6 (without transformer)		
Inverter/rectifier topology transformer-free IGBT with PWM Audible noise <50 dB Colour RAL 7035 Input Nominal voltage rating (configurable) 380, 400, 415 V 50/60 Hz With internal transformer (9155): e.g. 230, 400, 440, 480, 690V With external transformer (9355): e.g. 230, 400, 440, 480, 690V Input voltage range Low -20% at 100% load/-50% at 50% load without battery discharge; High +10% /max +20% Input frequency range 45-65 Hz Input power factor 0,99 Input ITHD less than 4,5% Soft start capability Yes Internal backfeed protection Yes Output Nominal voltage rating (configurable) 380, 400, 415 V 50/60 Hz With external transformer (9155): e.g. 230, 400, 440, 480, 690V				4			
Audible noise	Field up	gradeab	ole	yes			
Colour         RAL 7035           Input         Nominal voltage rating (configurable)         380, 400, 415 V 50/60 Hz           With internal transformer         (9155): e.g. 230, 400, 440, 480, 690V           With external transformer         (9355): e.g. 230, 400, 440, 480, 690V           Input voltage range         Low -20% at 100% load/-50% at 50% load without battery discharge; High +10% /max +20%           Input frequency range         45-65 Hz           Input power factor         0,99           Input ITHD         less than 4,5%           Soft start capability         Yes           Internal backfeed protection         Yes           Output         Nominal voltage rating (configurable)           With external transformer         (9155): e.g. 230, 400, 440, 480, 690V	Inverte	r/rectifie	r topology	trar	nsformer-free IGBT with PWM		
Input   Nominal voltage rating (configurable)   380, 400, 415 V 50/60 Hz	Audible	noise		<50	dB		
Nominal voltage rating (configurable)   380, 400, 415 V 50/60 Hz	Colour			RAI	L 7035		
(configurable)       380, 400, 415 V 50/60 HZ         With internal transformer       (9155): e.g. 230, 400, 440, 480, 690V         With external transformer       (9355): e.g. 230, 400, 440, 480, 690V         Input voltage range       Low -20% at 100% load/-50% at 50% load without battery discharge; High +10% /max +20%         Input frequency range       45-65 Hz         Input power factor       0,99         Input ITHD       less than 4,5%         Soft start capability       Yes         Internal backfeed protection       Yes         Output         Nominal voltage rating (configurable)       380, 400, 415 V 50/60 Hz         With external transformer       (9155): e.g. 230, 400, 440, 480, 690V	Input		'				
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Input voltage range Low -20% at 100% load/-50% at 50% load without battery discharge; High +10% /max +20% Input frequency range 45-65 Hz Input power factor 0,99 Input ITHD less than 4,5% Soft start capability Yes Internal backfeed protection Ves  Output  Nominal voltage rating (configurable) With external transformer    Low -20% at 100% load/-50% at 50% load without battery discharge; High +10% /max +20%   High +10	With in	ternal tra	ansformer	(915	55): e.g. 230, 400, 440, 480, 690V		
Input voltage range Input voltage range Input frequency range Input frequency range Input power factor Input ITHD Iess than 4,5% Soft start capability Ves Internal backfeed protection Output Nominal voltage rating (configurable) With external transformer  battery discharge; High +10% /max +20% Ingut Figure 10% /max +	With ex	ternal t	ransformer	(935	(9355): e.g. 230, 400, 440, 480, 690V		
Input power factor 0,99 Input ITHD less than 4,5%  Soft start capability Yes Internal backfeed protection Yes  Output  Nominal voltage rating (configurable) 380, 400, 415 V 50/60 Hz  With external transformer (9155): e.g. 230, 400, 440, 480, 690V	Input vo	Input voltage range			Low -20% at 100% load/-50% at 50% load without battery discharge; High +10% /max +20%		
Input ITHD less than 4,5%  Soft start capability Yes Internal backfeed protection Yes  Output  Nominal voltage rating (configurable) 380, 400, 415 V 50/60 Hz  With external transformer (9155): e.g. 230, 400, 440, 480, 690V	Input fr	equency	range	45-6	65 Hz		
Soft start capability Yes Internal backfeed protection Yes  Output  Nominal voltage rating (configurable) 380, 400, 415 V 50/60 Hz  With external transformer (9155): e.g. 230, 400, 440, 480, 690V	Input power factor		0,99	0,99			
Internal backfeed protection Yes  Output  Nominal voltage rating (configurable) 380, 400, 415 V 50/60 Hz  With external transformer (9155): e.g. 230, 400, 440, 480, 690V	Input ITHD		less	less than 4,5%			
Output         Nominal voltage rating (configurable)         380, 400, 415 V 50/60 Hz           With external transformer         (9155): e.g. 230, 400, 440, 480, 690V	Soft start capability		Yes	Yes			
Nominal voltage rating (configurable)   380, 400, 415 V 50/60 Hz	Internal backfeed protection		Yes				
(configurable) 380, 400, 415 V 50/60 HZ With external transformer (9155): e.g. 230, 400, 440, 480, 690V	Output						
(0.00), 0.3, 200, 0.0, 0.0,			380	380, 400, 415 V 50/60 Hz			
With internal transformer (9355): e.g. 230, 400, 440, 480, 690V	With ex	ternal tr	ansformer	(915	55): e.g. 230, 400, 440, 480, 690V		
	With in	ternal tr	ansformer	(935	55): e.g. 230, 400, 440, 480, 690V		

Output UTHD	<3% (100% linear load); <5% (reference non linear load)		
Output power factor	0,9 (e.g. 9 kW at 10 kVA)		
Permitted load power factor	0,7 lagging - 0,8 leading		
Battery			
Туре	Maintenance free VRLA batteries, NiCd		
Charging method	ABM technology or Float		
Temperature compensation	Optional		
Battery nominal voltage (lead-acid)	384 V (32x12 V, 192 cells)		
Charging current / Model	Default 3 A *Max 30 A		
*May be limited by maximum UPS	S input current rating		
Accessories			

Isolation transformer, long-life batteries, external battery cabinets, UPS Center (input, bypass, distribution), X-Slot connectivity (Web/SNMP, ModBus/Jbus, Relay, Hot Sync, ViewUPS-X remote display), Hot Sync parallel tie cabinet, integrated manual bypass, external maintenance bypass switch

Communications		
X-Slot	2 communication bays	
Serial ports	1 available	
Relay inputs/outputs	2/1 programmable	
Compliance with standa	rds	
Safety	IEC 62040-1, IEC 60950-1	
EMC	IEC 62040-2, IEC 60945	
Performance	IEC 62040-3	
Approvals	CE, DNV Type Approval, BV Type Approval and ABS PDA	
Other classification surv	ev reports On request	

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

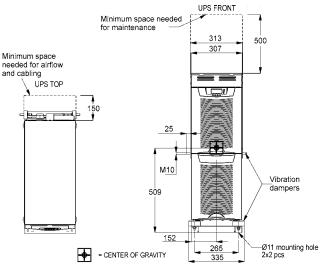
Description	Rating	Dimensions (HxWxD)	Weight with input transformer (net/gross)
9155-8-ST-M	8 kVA / 7.2 kW	960x313x714 (+150 mm)	170/190 kg
9155-10-ST-M	10 kVA / 9 kW	960x313x714 (+150 mm)	170/190 kg

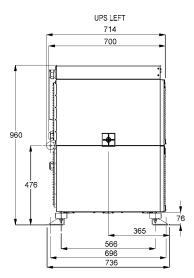
#### Stand-alone UPS with 3-phase input

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**

Description	Rating	Back-up	Dimensions (HxWxD)	Weight (net/gross)
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