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PDS 9155M and 9355M UPS



Advanced vessel or rig power protection for:

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



Powering Business Worldwide

Double conversion UPS

Qualified design for marine and offshore environment

- DNV type approved UPS
- 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 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

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UPS output power rating (0,9 p.f.)						
kVA	8	10	12	15		
kW	7,2	9	10,8	13,5		
Genera	al					
Efficiency in double conversion mode (full load)			92%	(without transformer)		
Efficiency in double conversion mode (half load)			90%	(without transformer)		
Distributed parallelling with Hot Sync technology			4	4		
Field upgradeable			yes	yes		
Inverter/rectifier topology			trans	transformer-free IGBT with PWM		
Audible	e noise		<50 c	<50 dB		
Colour			RAL	RAL 7035		
Input						
Nominal voltage rating (configurable)		380,	380, 400, 415 V 50/60 Hz			
With in	nternal tra	insformer	(9155	(9155): e.g. 230, 400, 440, 480, 690V		
With e	xternal tr	ansformer	(9355	(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 f	requency	range	45-65	45-65 Hz		
Input p	ower fac	tor	0,99	0,99		
Input I	Input ITHD		less	less than 4,5%		
Soft st	Soft start capability		Yes	Yes		
Internal backfeed protection		Yes	Yes			
Output		,				
Nominal voltage rating (configurable)		380,	380, 400, 415 V 50/60 Hz			
With external transformer			(9155	(9155): e.g. 230, 400, 440, 480, 690V		
With internal transformer			(9355	(9355): e.g. 230, 400, 440, 480, 690V		



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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 UF	PS 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	l available		

2/1 programmable

IEC 62040-1, IEC 60950-1

IEC 62040-2, IEC 60945 IEC 62040-3

CE, DNV Type Approval

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

Relay inputs/outputs

Safety

Performance

Approvals

 EMC

Compliance with standards

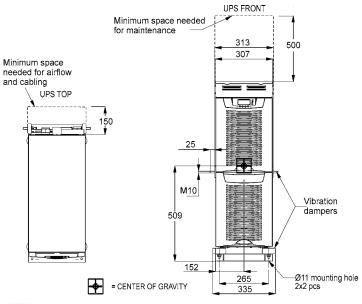
Other classification survey reports

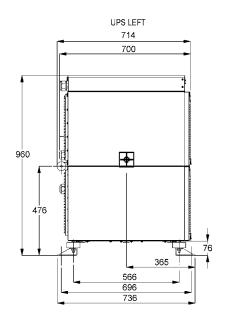
Stand-alone UPS with 3-phase input

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









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