

# **EH9115 Series**

# Low Frequency Three Phase (3/3) Online UPS

#### Feature:

- Rated power 20kva to 200kva
- Ture double-conversion online technology
- DSP 100% micro controlled
- N+1 parallel redundant connection
- High efficiency >92%
- Dual power supply (selectable)
- Accept 100% unbalanced load
- Cold start
- Intelligent battery control
- Compatible with generators
- Powerful communication system (RS232. SNMP. GPRS)

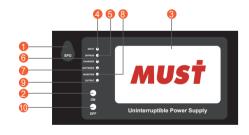
### Introduction:

Its advanced battery charging system enables the UPS to supply a long backup time while the charging time is rather short, and its temperature compensation system can help to prolong the service life of the battery. Also, its circuit is simple, which reduces the number of components and makes the manchine more compact and more reliable.

Its true double-conversion online technology provides pure and safe power supply to all appliances, communication equipment and important loads connected to the internet, and the DSP technology responds quickly to different power supply problems, making sure its load will work uninterruptedly.

It is compatible to all kinds of loads and widely used in the fields of energy sources, transportation, office, medical equipment, engine-room, data center, toll station and so on.

## LCD Display Information



 1. EPO
 6. Charger led

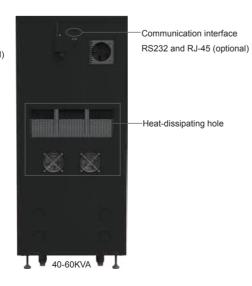
 2. ON
 7. Battery led

 3. LCD
 8. Inverter led

 4. Input led
 9. Output led

 5. Bypass led
 10. OFF





**Specification** 

MODEL(EH9115-)	20K3/3	30K3/3	40K3/3	60K3/3	80K3/3	100K3/3	120K3/3	160K3/3	200K3/3	
GENERAL										
Capacity	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA	160KVA	200KVA	
design technology				n, inverter based						
features	100% digital with last DSP technology / compatible with worldwide UPS monitoring system, immune to phase rotation input (for rectifier) dual input (optional)/LCD display / thermomagnetic protection for input, output, bypass and battery / UPS parallel ready with other UPS of same capacity for redundancy /									
estimated useful life					> 20 years					
efficiency ac / ac	ECOMODE >98%, inverter> 92%, AC-AC 91%									
INPUT				0.000/00/	050/ /40	- · · · · · · ·				
voltage (*)	3x380/220 vac ± 25% (165v to 275v)									
Thermomagnetic protection	thermomagnetic breaker									
lead wires (*) frecuency (*)	3 phases +neutral+ground 50bz + 25% (42 5bz to 62 5bz)									
power factor	50hz ± 25% (42.5hz to 62.5hz)  0.8 typ at full load									
technology	rectifier 6 PULSES, immune to phase rotation for rectifier input.									
INVERTER			10011101	7. <b>0</b> 2020,	р					
voltage (selectable) (*)	T			3:	(380/220 vac ±	1%				
lead wires (*)	5 wires ( 3 phases +neutral+ground )									
Thermomagnetic protection	Thermomagnetic breaker for output									
frecuency	50hz ± 0.1%									
waveform type	Sine wave generated by the inverter with high frequency pwm									
harmonic voltage distortion t.h.d	<2% for linear load / <5% for non-linear load									
crest factor	2.8 to 3.2									
power factor	0.9									
overload recovery.	automatic									
isolation transformer	dry type for inverter - voltage 380v/220v									
voltage regulation	± 1% for balanced load.									
overload capacity (*)	125% for 12 minutes. / 150% for one minute / 200% one cycle									
Short circuit protection		Transfer to bypass								
BYPASS					71					
Voltage	T			3x380/22	20 vac +-25% (a	djustable)				
lead wires (*)	5 wires ( 3 phases +neutral+ground )									
Automatic Bypass	static, solid state, 0 mseg for standar transfer, < than half cycle for failure transfer.									
Manual bypass	Thermomagnetic breaker for manual bypass, uninterrupted operation in normal transfers.									
Emergency Power Off	local EPO and / or remote									
Protection and short circuit			Fast fuse and	termomagnetic in			bypass breaker	).		
BATTERY	<u>'</u>			Ţ,	`			, 		
Thermomagnetic protection		Break	er protection. tu	rn the system off	when the batter	y is low. battery	test. smart cha	arger.		
Cold start	Yes									
Quantity	32 pcs (29 to 32 pcs adjustable) ***									
Voltage	Nominal 384 V, Float 435 (Adjustable)									
type (*)	sealed and maintenance free. technology vrla (valve regulated lead acid)									
Backup time at full load (*)	Customize									
typical recharge time.	4 hours 90%									
battery management.	auto-test, adjustable battery transfer point and settings of alarm.									
charger	soft start to full load. Adjustable current for charge batteries.									
PROTECTIONS AND STANDARDS	5									
	Thermoma	gnetic breaker fo	or input, thermo	magnetic breaker	for output, then	momagnetic bre	eaker for battery	and thermomag	netic break	
hardware protection	formanual bypass, surge protection, fast acting bypass fuse, fast-acting fuses in dc and bypass, fan, redundant power supply, 5 zones									
	temperature sensors, on-off switch, audible alarms.									
	Discharge batteries, manual shutdown Inverter, manual bypass switch active, emergency power off, manual shutdown, SCR failure									
Sofware protection and warning	bypass rotation failure, bypass out of range, overload, low battery, low output voltage, high output voltage, DC fuse open, power supply									
	power supply 14v, inverter overvoltage, overload greater than 200%, transfer failure, inverter voltage out of range, ground and neutral h									
	SCR inverter fail, UPS in bypass mode, low frequency, charger ON, inverter ON and others.									
Standars			EN 62040	-1 safety, EN 62	2040-2 EMC/EM	I , C62.41 sur	ge protection			
MONITORING AND COMMUNICA	TIONS									
GPRS				Compatible with						
front panel	standar: Icd display 240 * 128 reading electrical parameters. touchscreen. LED mimic.Input voltage, bypass voltage, output voltage, inverter voltage, output current, ground to neutral voltage, input frequency, output frequency, bypass frequency, active power, reactive power, ISO transformer temperature, IGBT temperature, DSP temperature, battery or environment temperature, battery voltage, batt current, two power supply voltage etc									
alarms	audible and visual alarms for non-normal conditions.									
communications	rs232 serial n	rs232 serial port. Dry contacts, "snmp-rj45" for remote monitoring (optional). gprs module for remote monitoring via GPRS network (option								
UPS CONDITIONS	13202 Serial p	or. Dry conidct	o, omip-ij <del>-i</del> o it	or remote monitor	ing (optional). g	pro module idi i	CAROLO MONICONIN	ig via Of NOTIE	ttroin (optic	
temperature					0°c to 40°c					
relative humidity.	+	0 to 95% noncondensing								
audible noise	+			0 10	<65 db	9				
DIMENSIONS AND WEIGHT										
PS dimensions in mm (front *hight * deep	540*6	22*1125	T	664*865*1548		966*9	90*1748	1160*1	043*1900	
UPS weight in "kg"	225	273	437	500	600	700	740	810	850	
OI O WOIGHT III NG			107			, , , ,	1 10		000	

<sup>\*</sup> Specification is subject to change without prior notice.

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<sup>\*\*</sup> This feature need the optional GPRS modem.

<sup>\*\*\*</sup>For 160kva and 200kva models use 40pcs battery, for use less than 32pcs battery derate the output power.