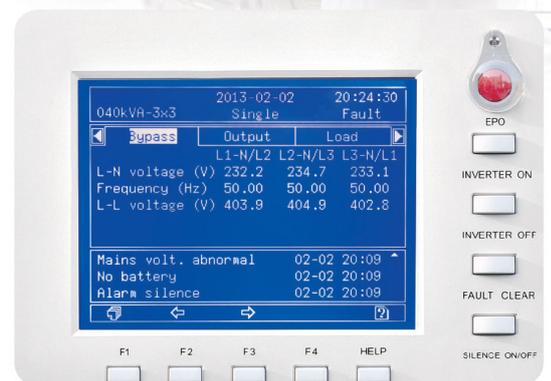


EPOWER SERIES

10 - 800kVA

3.3 phase PF: 0.9



Control Panel



magellanpower

Features

Online double conversion

Online Double Conversion Design helps to output a pure sinewave, which is immune from the UPS input, so that the load can run steadily. UPS transfers among different working mode without output interruption, thereby powering the load.

Full DSP Control

Full DSP Control avoids the risks caused by analog devices failure and makes the control system more stable and reliable.

High Power Factor

The output load power factor up to 0.9 better matches the load.

The input power factor 0.98 with filter helps to improve the efficiency, reduce the harmonic pollution to the Grid and lower the UPS running cost.

Wide Input Adaptability

The range of AC input voltage is (380Va/400Vac/415Vac) (-25%/+20%) minimising transfer to battery mode, thereby prolonging the battery life. Wide input frequency ranging from 45Hz to 65Hz, ensures stability of UPS while the generator is connected.

Optimised Battery Management

Intelligent battery management system and advanced battery auto float/boost charge technology reduces the frequency of battery maintenance, greatly improves the battery efficiency and extends battery life.

Battery discharge time prediction: the system will display the backup time of battery calculated by discharge, current and voltage.

Battery self test: battery is automatically tested at regular intervals.

Flexible battery configuration ranging from 360-408VDC/480VDC.

N + X Parallel Redundancy

N+X parallel redundant design, up to 6 units available, makes the configuration more flexible.

Any unit in parallel system fails, the faulty one will automatically cut off the output, and the load will be powered by the remained units.

It is easy to configure the parallel system just by connecting the parallel cables and adjusting settings correctly.

Non-master-slave relationship: Among several UPS in parallel, the unit startup first is Master UPS, the others are Slave. The Master and Slave may be interchanged.

Strong Overload Capability

110%/125%/150% overload for 60min/10min/1min.

Power walk in

Specially designed power walk in function, in which rectifier of each unit in parallel system will be turned on in sequence at intervals to avoid the sudden load on the generator, thereby reducing the cost of the generator required.

Generator Mode

Set the maximum output power of the generator when a smaller one than needed is employed to extend the battery duration time. In this case, the load is supplied by both the generator and battery.

LBS Synchronisation

Synchronise the output of the two independent UPS systems (single unit or parallel) even when the two systems are operating on different modes (bypass/inverter) or on battery.

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Synchronise the output of the two independent UPS systems (single unit or parallel) even when the two systems are operating on different modes (bypass/inverter) or on battery.

Multi-protection

Self-diagnosis function will take place before start-up for safety.

Multiprotection: AC input under/overvoltage, overload, short circuit, over-current, over bus voltage, over-temperature, fan failure, battery under voltage, battery over charge and so on.

EPO Function

A concave red EPO button with transparent cover is embodied in the LCD control panel for emergency power off.

User-friendly network management

Chinese/ english LCD and LED mimic diagram: real time operation parameters and status. RS232 & RS485 communication ports: for local monitor through network.

Dry contacts for additional monitoring:

- a. UPS on Inverter
- b. Mains input failure
- c. Remote EPO
- d. Battery low voltage alarm
- e. UPS fault
- f. UPS alarm
- g. UPS on battery
- h. UPS on bypass

Note: d)--h) optional

MODEL	EP10	EP20	EP30	EP40	EP60	EP80
Capacity (VA/Watts)	10kVA/9kW	20kVA/18kW	30kVA/27kW	40kVA/36kW	60kVA/54kW	80kVA/72kW

INPUT

Operating Voltage Range	380/400/415VAC (-25%/+20%), (3Ph+N+PE)
Operating Frequency Range	50/60Hz (± 5Hz)
Power Factor	>0.97 (with filter)

OUTPUT

Output Voltage	380/400/415Vac (±1%)				
Output frequency	50/60Hz (±0.05%)				
Harmonic Distortion (THD)	<3% (linear load)				
Crest Factor	3:1 (Max).				
Efficiency	≥88%	≥89%		≥90%	≥90.5%

BYPASS

Rated Voltage	380/400/415Vac
Rated Frequency	50/60Hz
Voltage Protection Range	Upper Limit +20% (+10%, +15%,+20% adjustable) Lower Limit: -40%, (-10%,-20%,-30%,-40% adjustable).
Frequency Protection Range	±10% (±2.5%, ±5%, ±10% ±20% adjustable)

BATTERY

Battery Voltage	384Vdc (360~384Vdc)
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SYSTEM FEATURES

Transfer Time	0ms (Line mode- battery mode)
Overload	110%/60min,125%/10min,150%/1min
LED Display	Input, inverter, bypass, battery, output, status
LCD Display	I/O voltage, frequency, power, power factor, battery voltage, current, battery status, load percentage, UPS status, history record.
Communication Interface	Dry contact, RS232, RS485, SNMP card (Optional)
Optional	Harmonic filter, SNMP adapter, LBS cables, battery temperature sensor, bypass current-sharing inductor.

ENVIRONMENTAL

Operating Temperature	0~40°C	
Storage Temperature	-25°C~55°C	
Humidity Range	0~95% (non-condensing)	
Altitude	<1500m	
Noise Level	<60dB	<65dB

PHYSICAL

Dimension WXDHX (mm)	Customised - as per client specifications.
Net Weight (kg)	Customised - not available at this time.

STANDARDS

Safety	IEC/EN62040-1;IEC/EN60950-1
EMC	IEC/EN62040-2;IEC61000-4-2;IEC61000-4-3;IEC6100-4-4; IEC61000-4-5; IEC61000-4-6; IEC61000-4-8.

MODEL	EP100	EP120	EP160	EP200	EP300	EP400	EP500	EP600	EP800	
Capacity (VA/Watts)	100kVA/ 90kW	120kVA/ 108kW	160kVA/ 144kW	200kVA/ 180kW	300kVA/ 270kW	400kVA/ 360kW	500kVA/ 450kW	600kVA/ 540kW	800kVA/ 720kW	
INPUT										
Operating Voltage Range	380/400/415VAC (-25%/+20%), (3Ph+N+PE)									
Operating Frequency Range	50/60Hz (± 5Hz)									
Power Factor	>0.97 (with filter)									
OUTPUT										
Output Voltage	380/400/415Vac (±1%)									
Output frequency	50/60Hz (±0.05%)									
Harmonic Distortion (THD)	<2% (linear load)									
Crest Factor	3:1 (max)									
Efficiency	≥92%		≥92.5%		≥93%		≥93.5%		≥94%	
BYPASS										
Rated Voltage	380/400/415Vac									
Rated Frequency	50/60Hz (auto-sensing)									
Voltage Protection Range	Upper Limit +20% (+10%, +15%,+20% adjustable) Lower Limit: -40%, (-10%,-20%,-30%,-40% adjustable).									
Frequency Protection Range	±10% (±2.5%, ±5%, ±10% ±20% adjustable)									
BATTERY										
Battery Voltage	384Vdc (360~384Vdc)						480Vdc			
SYSTEM FEATURES										
Transfer Time	0ms (Line mode- battery mode)									
Overload	110%/60min,125%/10min,150%/1min									
LED Display	Input, inverter, bypass, battery, output, status									
LCD Display	I/O voltage, frequency, power, power factor, battery voltage, current, battery status, load percentage, UPS status, history record, settings.									
Communication Interface	Dry contact, RS232, RS485, SNMP card (Optional)									
Optional	Harmonic filter, SNMP adapter, LBS cables, battery temperature sensor, bypass current-sharing inductor.									
ENVIRONMENTAL										
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STANDARDS										
Safety	IEC/EN62040-1, IEC/EN60950-1									
EMC	IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3,IEC61000-4-4, IEC61000-4-5, IEC61000-4-6,IEC61000-4-8.									
EMC	IEC/EN62040-2, IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8.									

*Specifications are subject to change without prior notice