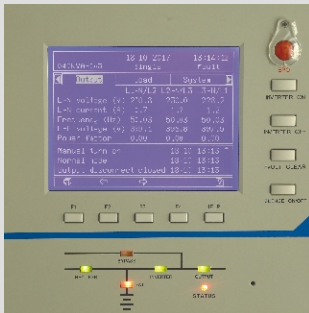


EPOWER SERIES

10 ~ 800KVA
3:3 Phase PF : 0.9



▶ CONTROL PANEL



Features

Online double conversion

- Online Double Conversion design helps to output a pure sine wave, 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 uninterruptedly.

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 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 (380 / 400 / 415 VAC) (-25%/+20%), minimizing transfer to battery mode, thereby greatly prolonging the battery life.
- Wide input frequency ranging from 45Hz to 65Hz, ensures stability of UPS while generator connected.

Multi-protection

- Self-diagnosis function will take place before start-up for safety.
- Multi-protection : AC input under/over voltage, overload, short-circuit, over-current, over bus voltage, over temperature, fan failure, Auxiliary power failure, battery under voltage, battery over-charge and so on...

Strong overload capability

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

EPO function

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

Optimized 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 discharges current and voltage.
- Battery self-test : battery is automatically tested at regular intervals.

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 doing proper settings.
- Non-fixed 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 exchanged.

User-friendly network management

- English LCD and LED mimic diagram: real time operation parameters and status.
- RS232 & RS485 communication ports : for local monitor with corresponding software, and MODBUS protocol is optional.
- SNMP adapter (optional) : for remote 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 on alarm
 - g) UPS on battery
 - h) UPS on bypass
 Note : d)--h) optional.

Technical Specifications :



MODEL	EP20	EP30	EP40	EP60	EP80	EP100	EP120
Capacity (KVA / KW)	20 / 18	30 / 27	40 / 36	60 / 54	80 / 72	100 / 90	120 / 108
INPUT							
Operating voltage range	380/400/415Vac (380-25%, 415+20%), (3Ph+N+PE)						
Operating frequency range	50/60Hz (±5Hz)						
Power factor	>_0.98 (with filter)						
OUTPUT							
Output Voltage	380/400/415Vac (±1%)						
Max. output current / phase	26A	39A	52A	78A	104A	130A	156A
Output frequency	50/60Hz (±0.05%)						
Harmonics distortion (THD)	<3% (Linear load)				<2% (Linear load)		
Crest factor	3:1 (Max.)						
Efficiency	>92%				>93%		
Power Factor	0.9						
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						
Battery types	SMF VRLA / TUBULAR						
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, Setting						
Communication interface	Dry contacts, RS232, RS485, SNMP card (Optional)						
Optional	Harmonic filter, LBS cables, battery temperature sensor, SNMP adapter, 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 W x D x H (mm)	570 x 800 x 1195			880 x 760 x 1600		1160 x 805 x 1600	
Net weight (kg)	273	316	330	483	525	800	903
Shipping weight (kg)	328	371	385	553	595	890	993
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						

Specifications are subject to change without prior notice.

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