

# SEPOWER-EX 10KVA TO 160KVA

## 3Phase Output



**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

**Wide input adaptability** · The range of AC input voltage is (380 / 400 / 415Vac) (-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

**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 self-test: battery is automatically tested at regular intervals · Flexible battery configuration ranging from 360-384Vdc battery duration time. In this case, the load is supplied by both the generator and battery

**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

**Full DSP control** · Double DSP control makes the whole system more stable and reliable

**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 under voltage, battery over-charge and so on

**LBS synchronization** · Synchronize 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 · Multi-protection: AC input under / over voltage, overload, short-circuit, over-current, over bus voltage, over- temperature, fan failure, auxiliary power failure, battery

**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 User-friendly

**Network management** · English LCD and LED mimic diagram: real time operation parameters and status (7 inch touch screen optional) · RS232 & RS485 communication ports: for local monitor with corresponding software, both can support MODBUS protocol · SNMP adapter (Optional): for remote monitor through network · Dry contacts (Optional): for additional monitoring

### Technical specification

Model	SEP10L	SEP20L	SEP30L	SEP40L	SEP60L	SEP80L	SEP100L	SEP120L	SEP160L
Capacity	10KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA	160KVA
INPUT									
Operating voltage range	380 /400 / 415 VAC (-25% / + 20%) ( 3Ph+PE)								
Operating frequency range	50/60Hz(+/-5%)								
Power factor	≥0.97*								
OUTPUT									
Output volts	380/400/415 VAC (+/- 1%) (3PH+N+PE)								
Output frequency	50/60Hz ( +/-0.5%)								
Harmonic distortion (thdv)	≤ 2% (Linear load)								
Crest factor	3:1(Max)								
Efficiency	88%	89%	89%	90%	90%	90.5%	92%	92.5%	92.5%
Bypass									
Rated voltage	380/400/415VAC, (3PH+N+PE)								
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)								
System features									
Transfer time	0ms(Line Mode To Battery Mode)								
Overload	Load ≤110% / 60Min; ≤125% / 10Min; ≤150% / 1Min. to Bypass								
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	RS232,RS485,EPO,DRY CONTECT(Optional) SNMP CARD (Optional)								
Environmental									
Operating temperature	0~40°C								
Storage temperature	-25~55°C								
Humidity range	0~95%( Non – Condensing)								
Altitude	<1500m								
Noise level	<58dB				<68dB				
Physical									
Dimension W*D*H(mm)	350 X 650 X 1050			430 X 830 X 1100		720 X 690 X 1400		890 X 790 X 1600	
Net weight (kg)	190	200	230	242	315	365	420	635	740
Gross weight (kg)	205	218	250	267	340	400	455	680	785
Standards									
Safety	IEC/EN 62040-1; IEC 62477-1								
Emc	IEC/EN62040-2(IEC61000-4-2, IEC61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC61000-2-2)								
Performance	IEC/EN62040-3								