

POWERPACK SE SERIES

1-2-3 kVA

1:1
PHASE

ONLINE UPS



HOME/OFFICE



EMERGENCY



MEDICAL



INDUSTRY



UPS ONLINE



TOWER



POWER FACTOR



PLUG & PLAY

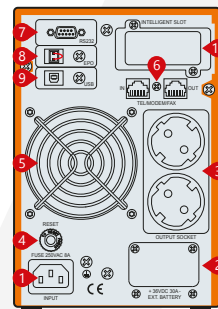


FEATURES

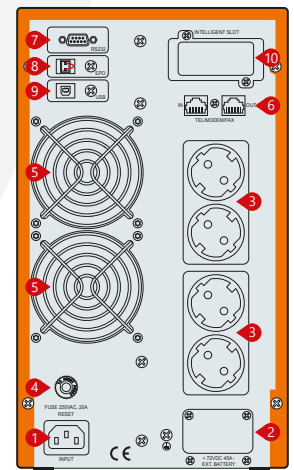
- High Frequency and True Double-Conversion
- DSP (Digital Signal Processors) Technology
- Input Power Factor Correction (PFC)
- Wide Input Voltage Range (110~300V)
- Output Power Factor 0.9
- Cold Start
- Auto Sensing Frequency
- ECO Mode Operation for Energy Saving
- Selectable Output Voltage via LCD
- Output Bypass Settable via LCD
- Power-On Self Test
- Advanced Battery Management (ABM)
- Short Circuit and Overload Protection
- Automatic Charging in Off Mode
- Auto Control Fan Speed when Loads Varies
- Standard RS232 Communication Port and RJ45 Protection
- USB/SNMP Communication Port (Optional)
- Emergency Power Off (EPO) (Optional)
- Extension Battery Bank (Optional)
- Built-In Isolation Transformer (Optional)

DETAILS

1. AC Input
2. DC Input
3. Outlet
4. Breaker
5. Fan
6. Modem/Tel/Fax
7. RS232
8. USB (Optional)
9. EPO (Optional)
10. SNMP/AS400 (Optional)



Rear Panel
1kVA



Rear Panel
2-3kVA

CERTIFICATES



MODEL									
Capacity	1kVA / 900W			2kVA / 1800W			3kVA / 2700W		
INPUT									
Related Voltage	208V / 220V / 230V / 240 VAC								
Voltage Range	110 ~ 176 VAC (Linear Derating Between 50% and 100% load); 176 ~ 280 VAC (No Derating); 280 ~ 300 VAC (Derating 50%)								
Frequency	40 ~ 70 Hz (Auto Sensing)								
Power Factor	≥ 0.99								
Bypass Voltage Range	-25% ~ +15% (Settable)								
OUTPUT									
Voltage Range	208V / 220V / 230V / 240 VAC (Settable via LCD)								
Voltage Regulation	±1%								
Frequency	45 ~ 55 Hz or 55 ~ 65 Hz (Synchronized Range); 50 / 60 Hz ±0.1 Hz (Battery Mode)								
Waveform	Sinusoidal								
Crest Factor	3:1								
Harmonic Distortion	≤2% (Linear Load); ≤5% (Non-Linear Load)								
Nominal Voltage	Mains Mode to Battery Mode: 0ms Inverter Mode to Bypass Mode: 4ms (Typical)								
Overload Capability	105% ~ 125%: Transfer to Bypass in 1min 125% ~ 150%: Transfer to Bypass in 30s >150%: Transfer to Bypass in 300ms								
EFFICIENCY									
Mains Mode	≥90%			≥91%			≥92%		
ECO Mode	≥95%			≥96%			≥97%		
BATTERIES									
DC Voltage	24 V	36 V	36 V	48 V	72 V	72 V	72 V	96 V	96 V
Inbuilt Battery	2 x 7Ah	3 x 7Ah	External	4 x 7Ah	6 x 7Ah	External	6 x 7Ah	8 x 7Ah	External
Charging Current (Max.)	1A		6A		1A		6A		6A
Recharge Time	8 hour								
ALARMS									
Utility Failure	Beep / 4sec								
Low Battery	Beep / 1sec								
Overload	Beep Twice / 1sec								
UPS Fault	Long Beep								
COMMUNICATIONS									
RS232 (Standard) / USB (Optional)	Supports Windows®98/2000/2003/XP/Vista/2008/Windows®7/8/10								
SNMP (Optional)	Power Management from SNMP Manager and Web Browser								
OTHERS									
Operating Temperature	0 ~ 40°C								
Relative Humidity	0 ~ 90% (Non-Condensing)								
Noise Level	≤45 dB (1m)								
DIMENSIONS & WEIGHT									
Dimension WxDxH (mm)	144 x 336 x 214	144 x 414 x 214	144 x 336 x 214	191 x 418 x 335				191 x 464 x 335	191 x 418 x 335
Packaging Dimension WxDxH (mm)	232 x 417 x 318	231 x 492 x 316	232 x 417 x 318	318 x 533 x 471				320 x 573 x 471	318 x 533 x 471
Net Weight (kg)	9.5	13	6	18	25.7	10.5	27.2	32	11
Gross Weight (kg)	10.5	14.2	7	19.5	27.4	12	29	34	12.5

Makelsan reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Makelsan products previously or subsequently sold. Makelsan does not guarantee the items of the accuracy and completeness.