

POWERPACK SERIES

1/2/3 kVA

1:1
PHASE

ONLINE UPS



HOME/OFFICE



EMERGENCY



MEDICAL



INDUSTRY



DATA CENTER



TRANSPORT



UPS ONLINE



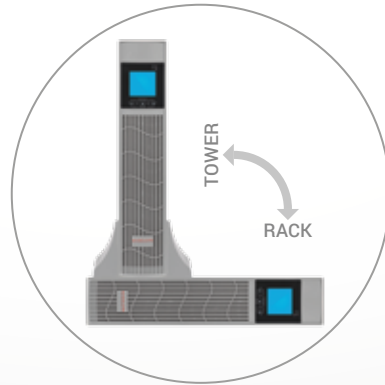
RACK/TOWER



POWER FACTOR



PLUG & PLAY



FEATURES

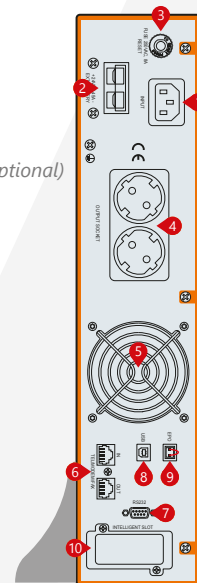
- High Frequency and True Double-Conversion
- DSP (Digital Signal Processors) Technology
- Input Power Factor Correction (PFC)
- Wide Input Voltage Range (110~300V)
- Output Power Factor 0.9
- Cold Start
- Auto Sensing Frequency
- ECO Mode Operation for Energy Saving
- Selectable Output Voltage via LCD
- 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
- Generator Compatible
- 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)

CERTIFICATES

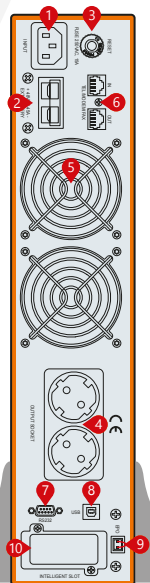


DETAILS

1. AC Input
2. DC Input
3. Breaker
4. Outlet
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

MODEL									
Capacity	1kVA / 900W			2kVA / 1800W			3kVA / 2700W		
INPUT									
Rated 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 Range	45 ~ 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 Range	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)								
Transfer Time	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%		
Battery Mode	≥85%			≥86%			≥87%		
ECO Mode	≥95%			≥96%			≥97%		
BATTERY									
DC Voltage	24V	36V	36V	48V	72V	72V	96V	96V	
Inbuilt Battery	2 x 7Ah	3 x 7Ah	External	4 x 7Ah	External	6 x 7Ah	8 x 7Ah	External	
Charging Current (Max.)	1A		6A	1A	6A	1A		6A	
Recharge Time	8h								
ALARMS									
Utility Failure	4s Per Beep								
Low Battery	1s Per Beep								
Overload	1s Twice Beep								
UPS Fault	Long Beep								
ENVIRONMENTAL									
Operating Temperature	0 ~ 40°C								
Relative Humidity	0 ~ 90% (Non-Condensing)								
Noise Level	≤50 dB (1m)								
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								
DIMENSIONS & WEIGHT									
Dimensions WxDxH (mm)	440x468x88			440x658x88		440x468x88	440x658x88	440x468x88 (UPS) 440x440x88 (BAT)	440x468x88
Packaging Dimensions WxDxH (mm)	545x592x198			545x782x198		545x592x198	545x782x198	545x592x198 (UPS) 590x580x200 (BAT)	545x592x198
Net Weight (kg)	12.26	13.78	7.58	22.73	25.86	9.66	29.26	9.45 (UPS) 27.2 (BAT)	10.04
Gross Weight (kg)	15.78	17.3	11.1	26.63	29.76	13.18	33.16	12.97 (UPS) 30.2 (BAT)	13.56

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.