

POWERPACK 3300 SE SERIES

10/15/20 kVA **3:3** PHASE

ONLINE UPS



DATA CENTER



EMERGENCY



MEDICAL



INDUSTRY



TRANSPORT



UPS ONLINE



TOWER



POWER FACTOR



SERVICE



FEATURES

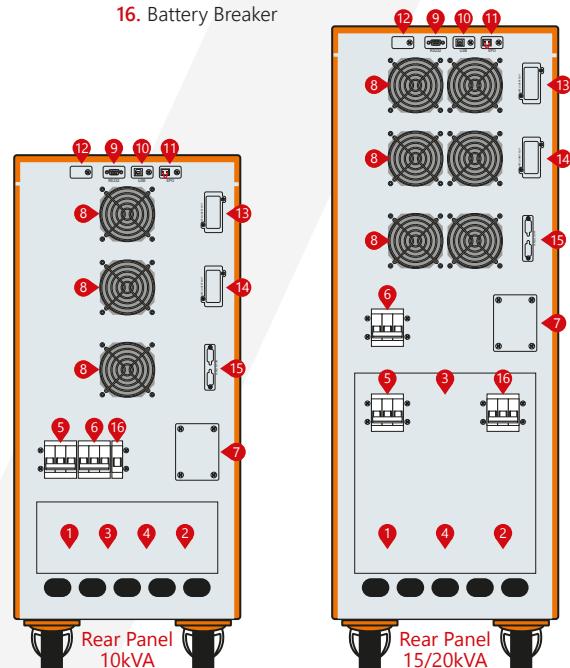
- DSP Digital Control Technology
- Active Power Factor Correction (APFC)
- Input Power Factor up to 0.99
- Output Power Factor 0.9
- Cold Start
- Dual Input
- Wide Input Voltage Range (190V-485V)
- Auto Sensing Frequency
- 50Hz/60Hz Frequency Conversion Mode
- Work Efficiency up to 98% in ECO Mode
- Auto Control Fan Speed when Load Varies
- Auto Power ON/OFF According to the Loads Capacity
- Compact Internal Layout, Miniaturized the Complete Unit for Small Footprint
- LCD+LED Display, Multifunctional Keys Operation, Friendly Human-Machine Interface
- Powerful Background Software for Parameters Configuration and Online Updating
- Doubling the Battery Charging Speed, 90% Capacity Restored in 4 Hours (Standard Model UPS)
- Advanced Battery Management (ABM), Automatic Floating / Equalizing Charge Control, Charger Dormancy Control
- Emergency Power Off (EPO)
- Maintenance ByPass
- RS232/USB Communication Port

CERTIFICATES



DETAILS

- | | |
|-------------------------|--|
| 1. Mains Input | 9. RS232 |
| 2. DC Input | 10. USB |
| 3. Bypass Input | 11. EPO |
| 4. Output | 12. Battery Temperature Compensation (Optional) |
| 5. Mains Input Breaker | 13. Intelligent Slot 1 (SNMP/AS400/RS485) (Optional) |
| 6. Bypass Input Breaker | 14. Intelligent Slot 2 (Optional) |
| 7. Maintenance Bypass | 15. Parallel Card (Optional) |
| 8. Fan | 16. Battery Breaker |



MODEL							
Capacity	10kVA / 9kW	15kVA / 13,5kW	20kVA / 18kW				
INPUT							
Related Voltage	360 / 380 / 400 / 415 VAC						
Voltage Range	277~485 VAC (No Derating), 190~277 VAC (Linear Derating Between 50% and 100% Load)						
Rated Frequency	50 / 60 Hz (Auto Sensing)						
Power Factor	≥0,99						
Frequency Range	40~70 Hz						
Bypass Voltage Range	-40%~ +15% (Settable)						
Total Harmonic Distortion (THDi)	≤5%						
OUTPUT							
Rated Voltage	360 / 380 / 400 / 415 VAC (Settable)						
Voltage Regulation	±1%						
Frequency	45~55 Hz or 55~65 Hz (Synchronized Range); 50/60 Hz ±0.1Hz (Battery Mode)						
Waveform	Sinusoidal						
Power Factor	0.9						
Crest Factor	3:1						
Total Harmonic Distortion	≤2% (Linear Load) ≤5% (Non-Linear Load)						
Transfer Time	Battery Mode to Inverter Mode 0ms, Inverter to Bypass Mode 0ms						
Overload	<table border="0"> <tr> <td>Inverter</td> <td>102%~125% for 10min, 125%~150% for 1min, >150% for 0.5s</td> </tr> <tr> <td>ByPass</td> <td>102%~125% for 20min, 125%~150% for 2min, >150% for 1s</td> </tr> </table>			Inverter	102%~125% for 10min, 125%~150% for 1min, >150% for 0.5s	ByPass	102%~125% for 20min, 125%~150% for 2min, >150% for 1s
Inverter	102%~125% for 10min, 125%~150% for 1min, >150% for 0.5s						
ByPass	102%~125% for 20min, 125%~150% for 2min, >150% for 1s						
BATTERY							
DC Voltage	240 VDC						
Inbuilt Battery of Standard Model	20 x 7Ah	40 x 7Ah	40 x 9Ah				
Charging Current	1A, 2A, 3,5A Settable						
Recharge Time	90% Capacity Restored in 4 Hours						
SYSTEM							
Efficiency	≥93%, ECO Mode 98%						
Transfer Time	0ms						
Max. Number of Parallel Connections	6						
Protections	Short Circuit, Overload, Overtemperature, Battery Low-Voltage, Overvoltage, Undervoltage and Fan Failure						
Communications	USB, RS232, RS485, Dry Contact, SNMP Card (Optional)						
Display	LED&LCD						
Standards	EN 62040-1, EN 62040-2, EN 61000-3-12, EN 61000-3-2, EN61000-3-11, IEC 61000-4-2, IEC61000-4-3, IEC 61000-4-4, IEC61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2						
ENVIRONMENTAL							
Operation Temperature	0°C~40°C						
Storage Temperature	-25°C~55°C (Without Batteries)						
Relative Humidity	0%~95% (Non-Condensing)						
Altitude	≤1000m, Derating 1% for Each Additional 100m						
Noise Level	<60 dB	<65 dB					
DIMENSIONS & WEIGHT							
Dimensions WxDxH (mm)	350 x 785 x 858	350 x 785 x 1078					
Packaging Dimensions WxDxH (mm)	472 x 910 x 1050	472 x 910 x 1260					
Net Weight (kg)	110	155	175				
Gross Weight (kg)	125	170	190				

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.