

POWERPACK

3300 SERIES

10-15-20 kVA

ONLINE UPS



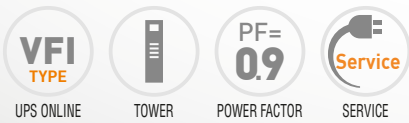
DATA CENTER

EMERGENCY

MEDICAL

INDUSTRY

TRANSPORT



UPS ONLINE

TOWER

POWER FACTOR

SERVICE

FEATURES

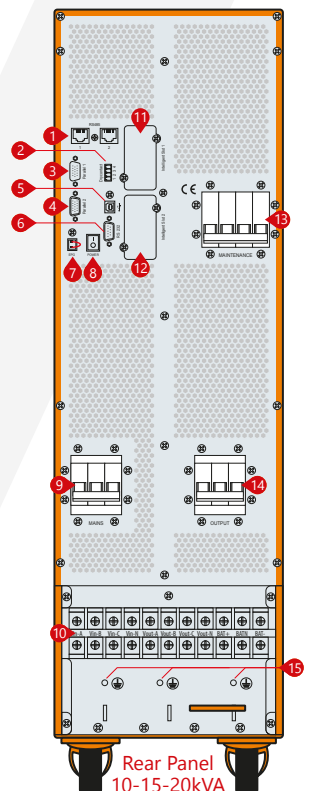
- High Frequency and True Double-Conversion
- DSP (Digital Signal Processors) Technology
- Input Power Factor Correction (PFC)
- Wide Input Voltage Range (110~300V)
- Output Power Factor 0.9
- Cold Start
- Auto Sensing Frequency
- ECO Mode Operation for Energy Saving
- Selectable Output Voltage via LCD
- 50Hz/60Hz Frequency Converter Mode Available
- Selectable Battery Low Voltage via LCD
- Power-On Self Test
- Advanced Battery Management (ABM)
- Short Circuit and Overload Protection
- Automatically Charging Battery at UPS Off Mode
- Fan Speed Auto Control when Load Varies
- Standard RS232 Communication Port
- USB/SNMP Communication Port (Optional)
- Emergency Power Off (EPO) (Optional)
- Extension Battery Bank (Optional)
- Built-In Isolation Transformer (Optional)
- Manual Bypass (Optional)
- N+X Redundancy Parallel (Optional)

CERTIFICATES



DETAILS

1. RS 485 Port
2. Dry Contact Port
3. Parallel Port 1
4. Parallel Port 2
5. USB Port
6. RS232
7. EPO Port
8. Power Switch
9. Input Switch
10. Terminal Block
11. Intelligent Slot 1 (SNMP Card / Relay Card)
12. Intelligent Slot 2 (SNMP Card / Relay Card)
13. Maintenance Switch
14. Output Switch
15. Ground



Rear Panel
10-15-20kVA

MODEL			
Capacity	10kVA / 9kW	15kVA / 13,5kW	20kVA / 18kW
INPUT			
Related Voltage	380 / 400 / 415 VAC, (3Ph+N+PE) -20% +15%		
Voltage Range	208 - 478 VAC		
Frequency	50 Hz: 45-55 Hz; 60 Hz: 54-66 Hz (Auto Sensing)		
Power Factor	≥0,99		
Bypass Frequency Range	50-60 Hz ±10%		
Harmonic Distortion	≤3% (100% Non-Linear Load)		
ECO Range	Max. Voltage: 220V: +25% (Optional +10%, +15%, +20%), 230V: +20% (Optional +10%, +15%), 240V: +15% (Optional +10%) Min. Voltage: -45% (Optional -20%, -30%)		
Generator	Compatible		
OUTPUT			
Voltage Range	380V / 400V / 415 VAC (3Ph+N+PE)		
Power Factor	0.9		
Voltage Regulation	±1%		
Frequency	AC Mode	±1%, ±2% , ±4%, ±5%, ±10% (Optional)	
	Battery Mode	50-60 ± 0.1 Hz	
Waveform	Pure Sinewave		
Crest Factor	3:1		
Harmonic Distortion	≤2% (Linear Load) ≤5% (Non-Linear Load)		
Transfer Time	Battery Mode to Inverter Mode 0ms, Inverter to Bypass Mode 0ms		
Output Dynamic Tolerance	At 100% Load ±5%		
Overload Capability	AC Mode	≤110%: 60min.; ≤125%: 10min.; ≤150%: 1min. ≥150% turn to Bypass Mode Immediately	
	Battery Mode	>150% Bypass Mode	
Parallel Operation	Optional		
EFFICIENCY			
AC Mode	93,5%		94,5%
Battery Mode	92,5%		93,5%
ECO Mode	98%		
BATTERY			
DC Voltage	Standard Model	±120 VDC	±120 VDC
	Optional	±120 VDC	
Standard Model Inbuilt Battery	20 x 12V 9Ah	40 x 12V 7Ah	40 x 12V 9Ah
Charge Current	Standard Model	1,35 / 2,7 / 4,05A	
	Long Time Model	10A	
Typical Recharge Time	8 hour		
PROTECTION			
Full Protection	Overload, Short Circuit ve Battery Charge-Discharge Protection, RFI/EMI Filtre, IP20		
SYSTEM FEATURES			
Charge Current	Smart Charging System		
Over-temperature	Line Mode: Turn to Bypass; Backup Mode: Shut Down UPS Immediately		
Intelligent Alarm System	Line Failure, Low Battery, Overload, System Failure		
LED&LCD Monitor	Line Mode, Battery Mode, Bypass Mode, Battery Low, Overload & UPS Fault		
ALARM			
Utility Failure	Line Mode, Low Battery, Overload, System Fault		
Battery Low	Alarm and Shut Down		
Overload	Overload		
UPS Fault	System Fault		
PHYSICAL			
Dimensions WxDxH (mm)	828 x 250 x 868		
Packaging Dim. WxDxH (mm)	935 x 365 x 1055		
Net Weight (kg)	115	170	171
Gross Weight (kg)	143	198	199
ENVIRONMENT			
Operation Temperature	0°C~40°C		
Storage Temperature	-25°C~55°C		
Humidity	0%~90%		
Altitude	<1500 m		
Noise Level	<50 dB		
MANAGEMENT			
Communication Interface	USB, RS232, RS485, Parallel Port, Dry Contact, Smart Port, SNMP Card (Optional), Relay Card (Optional)		
Software	Muser4000, Sofeware		
Emergency Power Off	Dry Contact (Optional)		
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		

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