

# SMART BX-S-RM

SERIES

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

ONLINE UPS



DATA CENTER

MEDICAL

INDUSTRY

TRANSPORT

EMERGENCY



UPS ONLINE



TOWER



POWER FACTOR



SERVICE



## Power Protection for Entry Level IT Servers & Networks

- + High Frequency and True Double-Conversion
- + DSP (Digital Signal Processors) Technology
- + Input Power Factor Correction (PFC)
- + 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
- + Emergency Power Off (EPO)
- + Standard RS232 Communication Port
- + USB/SNMP Communication Port (Optional)
- + Extension Battery Bank (Optional)



- + High Output Power Factor 0.9
- + High Energy Savings
- + Smart Charger Technology



MODEL			
Capacity	<b>10kVA / 9kW</b>	<b>15kVA / 13,5kW</b>	<b>20kVA / 18kW</b>
<b>INPUT</b>			
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		
<b>OUTPUT</b>			
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		
<b>EFFICIENCY</b>			
AC Mode	93,5%		94,5%
Battery Mode	92,5%		93,5%
ECO Mode		98%	
<b>BATTERY</b>			
DC Voltage	240-480 VDC	360-480 VDC	480 VDC
Battery Quantity	(20-40) x 12V 7/9Ah	(30-40) x 12V 7/9Ah	40x12V 7/9Ah
Charge Current	5A		
Typical Recharge Time	8 hour		
<b>PROTECTION</b>			
Full Protection	Overload, Short Circuit ve Battery Charge-Discharge Protection, RFI/EMI Filtre, IP20		
<b>SYSTEM FEATURES</b>			
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		
<b>ALARM</b>			
Utility Failure	Line Mode, Low Battery, Overload, System Fault		
Battery Low	Alarm and Shut Down		
Overload	Overload		
UPS Fault	System Fault		
<b>ENVIRONMENTAL</b>			
Operation Temperature	0°C~40°C		
Storage Temperature	-25°C~55°C		
Humidity	0%~90%		
Altitude	<1500 m		
Noise Level	<50 dB		
<b>COMMUNICATION</b>			
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)		
<b>STANDARDS</b>			
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		
<b>DIMENSIONS &amp; WEIGHT</b>			
	<b>10kVA</b>	<b>15kVA</b>	<b>20kVA</b>
Dimensions WxDxH (mm)	440 x 575 x 135	440 x 575 x 135	440 x 705 x 135
Net Weight (kg)			

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