



BR 931E

10-20kVA

Online UPS



RAPSTECH™





Features:

- ✦ True Online Double conversion with **Advanced DSP and 3-level technology**.
- ✦ Active power factor correction (APFC), **Input power factor up to 0.99**.
- ✦ High efficiency 95% up to 98% on ECO mode.
- ✦ **Advanced Digital Parallel Technology (Upto 4 Units)**.
- ✦ **Wide input voltage range and frequency range**.
- ✦ 50 / 60 Hz frequency auto sensing
- ✦ **Two modes of frequency conversion: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output**.
- ✦ Dual-input design, supporting independent bypass
- ✦ Flexible battery configuration (Settable 16 / 18 / 20 no's Batteries)
- ✦ Digitally Controlled Charger.
- ✦ **Output power factor 0.9**
- ✦ **Fan speed varies intelligently with temperature**, reducing noise and extending its service life
- ✦ Compact internal layout, miniaturized the complete unit for **Small Footprint**
- ✦ LCD+LED display, multi-functional keys operation.
- ✦ Powerful background software for parameters configuration
- ✦ Effective Software and Hardware Protection function, Robust Self-Diagnostic function.

Multi-Platform Communications:

- ✦ Standard: RS232.
- ✦ Optional: USB, RS485 Card, Dry Contacts, SNMP Card, EPO function.

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Technical Specifications:

Model	BR 931E - 10kVA	BR 931E - 20kVA
Phase	3 Phase Input / 1 Phase Output	
Capacity	10000VA / 9000 W	20000VA / 18000 W
Input		
Input Wiring	Three-Phase Five wire (3Ø + N + PE)	
Rated Voltage	380 / 400 /415 Vac	
Voltage Range	330VAC - 470VAC	
Rated Frequency	50 / 60 Hz (Auto Sensing)	
Frequency Range	40 ~ 70 Hz	
Power Factor	≥ 0.99	
Bypass Voltage Range	-40% ~ +15% (Settable)	
Total Harmonic Distortion (THDi)	≤ 5%	
Output		
Output Wiring	Single Phase Three Wire (1Ø + N + PE)	
Rated Voltage	208 / 220 / 230 / 240 Vac	
Voltage Regulation	± 1%	
Frequency	Synchronized to bypass in Mains Mode; 50/60 Hz ± 0.1% Hz in Battery Mode	
Waveform	Sinusoidal	
Power Factor	0.9	
Total Harmonic Distortion (THDv)	≤ 1% (Linear Load); ≤ 3% (Non Linear Load)	
Crest Factor	3:1 (Max)	
Overload	105% ~ 110% for 10 min, 111% ~ 125% for 1 min, 126% ~ 150% for 30 s	
Battery		
DC Voltage	192 / 216 / 240 Vdc; 192 Vdc Default	
Number of Batteries	16 / 18 / 20; 16 no's Default	
Charging Current	Long backup model 5 A (default); 10 A (Max)	
System		
Efficiency	≥ 94% at 100% Load; max. 95% at 60% load; ≥ 98% in ECO mode	
Transfer Time	0 ms	
Protections	Short Circuit, Over Load, Over Temperature, Battery Low / High Voltage,	
Communications	RS232 (Standard), USB / RS485 / Dry Contact / SNMP / MODBUS (Optional)	
Display	LCD + LED	
Max. number of parallel connections	4 units (optional)	
Environment		
Operating Temperature	0°C ~ 40°C	
Storage Temperature	-25°C ~ 55°C (Without Batteries)	
Relative Humidity	0 ~ 95% (Non-Condensing)	
Altitude	≤ 1000 m, Derating 1% for Each Additional 100 m	
IP Rating	IP 20	
Noise Level @ 1m	≤ 58 DB	
Physical		
Dimensions (W X D X H) (mm)	191 X 495 X 350	191 X 495 X 515
Net Weight (kg)	18.5	26.5

* All specifications subject to change without notice



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