

RAION J5 DATASHEET

- UPS functionality with <1ms transfer time
- Highly flexible PV input up 430v and 100A
- Removable LCD screen for convenient installation
- Built-in Wi-Fi for mobile monitoring
- Customizable usage modes
- Compatible with BYD Battery-Box batteries



TECHNICAL PARAMETERS

MODEL	RaiOn J5
CAPACITY	5000VA / 5000W
PARALELL CAPABILITY	Up to 9 units
GRID INPUT	
VOLTAGE	230 VAC
VOLTAGE RANGE	110-280 VAC
FREQUENCY RANGE	50 Hz/60 Hz (Auto sensing) ± 4Hz
POWER FACTOR	≥ 0.98 @ Nominal Voltage (100% Load)
THDi	≤ 10%
LOAD OUTPUT	
AC VOLTAGE REGULATION (Line & Batt. Mode)	230VAC ± 5%
FREQUENCY RANGE (Synchronized Range)	46~54 Hz or 56~64 Hz
HARMONIC DISTORTION	≤ 3 % THD (Linear Load); ≤ 5 % THD (Non-linear Load)
TRANSFER TIME (AC Mode to Batt. Mode)	0 ms
TRANSFER TIME (Inverter to Bypass)	4 ms (Typical)
WAVEFORM	Pure sine wave
EFFICIENCY	
LINE MODE	94%
ECO MODE	98%
BATTERY MODE	92%
BATTERY	
BATTERY VOLTAGE	40~66 VDC
FLOATING CHARGE VOLTAGE	54 VDC
OVERCHARGE PROTECTION	66 VDC
SOLAR INPUT	
SOLAR CHARGE TYPE	MPPT
MAXIMUM PV ARRAY POWER	6000 W
MPPT RANGE @ OPERATING VOLTAGE	120-430 VDC
MAXIMUM PV ARRAY OPEN CIRCUIT VOLTAGE	500 VDC
MAXIMUM SOLAR CHARGE CURRENT	100A
MAXIMUM AC CHARGE CURRENT	100A
MAXIMUM CHARGE CURRENT	100A
PHYSICAL	
DIMENSIONS DxWxH (mm)	140 x 295 x 478
NET WEIGHT (KGs)	12.0
COMMUNICATION INTERFACE	RS232, USB, DRY CONTACT, WI-FI, RS485
OPERATING ENVIRONMENT	
HUMIDITY	5% to 95% Relative Humidity(Non-condensing)
OPERATING TEMPERATURE	-10°C to 50°C
STORAGE TEMPERATURE	-15°C to 60°C

*Product specifications are subject to change without further notice.