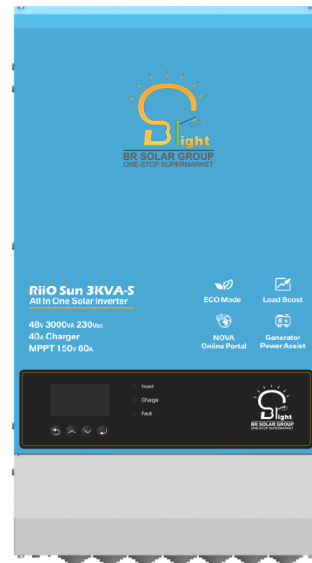




BR SOLAR GROUP
ONE-STOP SUPERMARKET

OFF GRID POWER EXPERT



RiiO Sun

All in one solar inverter RiiO Sun 2KVA-6KVA

RiiO Sun is a powerful inverter integrated with multiple functions, including a high-performance true sine wave inverter, a powerful battery charger, a MPPT charge controller, a high-speed automatic transfer switch.

RiiO Sun inverter can be used in multiple applications. With a simple setting, you can compose a DC coupling, solar hybrid system or power backup system. Its distinguishing surge capability makes it capable to power mostly demanding appliances, such as fridge, freezer, water pump and air-conditioner etc.

Under generator mode, with the function of power assist & power control, RiiO Sun can automatically adjust its charging current avoiding the grid or generator to be overloaded. In case of temporary peak power appears, it can work as the supplement source to generator or grid.

- All in one, plug and play design for easy installation
- Can be applied for DC coupling, solar hybrid system and power backup system
- Generator power assist
- Load Boost Function
- Inverter efficiency up to 94%
- MPPT efficiency up to 98%
- Harmonic distortion < 2%
- Extremely low status consumption power
- High performance designed for all kinds of inductive load
- BR Solar premium II battery charging management
- With built in battery SOC estimation
- Equalization charging program was available for flooded and OPZS battery
- Lithium Battery charging was available
- Fully programmable by APP
- Remote monitoring and control via NOVA online portal



Model No.	RiiO Sun 2KVA-M	RiiO Sun 3KVA-M	RiiO Sun 2KVA-S	RiiO Sun 3KVA-S	RiiO Sun 4KVA-S	RiiO Sun 5KVA-S	RiiO Sun 6KVA-S
Power Assist	Yes						
AC input voltage range (VAC)	175~265						
AC input Frequency range (Hz)	45~65						
AC input Current (transfer switch) (A)	32				50		

Inverter

Nominal battery voltage (V)	24			48			
Input voltage range (V)	21~34			42~68			
AC output voltage (VAC)	220/230/240 ± 2%						
AC output Frequency (Hz)	50/60 ± 0.1%						
Harmonic distortion	< 2%						
Load Power factor	1.0						
Cont. output power at 25°C (VA)	2000	3000	2000	3000	4000	5000	6000
Output power (30min) at 25°C (W)	2000	3000	2000	3000	4000	5000	6000
Output power (60min) at 25°C (W)	1600	2400	1600	2400	3200	4000	4800
Cont. output power at 25°C (W)	1400	2100	1400	2100	2800	3500	4200
Peak power (W)	4000	6000	4000	6000	8000	10000	12000
Maximum efficiency	91%			93%		94%	
Zero load power (W)	13	17	13	17	19	22	25

Charger

Charge voltage 'absorption' (V)	28.8			57.6			
Charge voltage 'float' (V)	27.6			55.2			
Battery types	AGM / GEL / OPZV / Lead-Carbon / Li-ion / Flooded						
Max AC charge current (A)	50	80	25	40	50	70	80
Temperature compensation	Yes						

Solar Charge Controller

Max output current (A)	60		40		60		80
Maximum PV power (W)	2000		3000		4000		6000
PV open circuit voltage (V)	150						
MPPT voltage range (V)	65~145						
Charge voltage 'absorption' (V)	28.8			57.6			
Charge voltage 'float' (V)	27.6			55.2			
MPPT charger maximum efficiency	98%						
MPPT efficiency	> 99.5%						
Protection	a) output short circuit; b) overload; c) battery voltage too high d) battery voltage too low; e) temperature too high; f) input voltage out of range						

General Data

Output (AC Out) Current (A)	32				50		
Transfer time	4ms (<15ms in Weak AC source Mode)						
Protection	a) output short circuit; b) overload c) battery voltage too high; d) battery voltage too low e) temperature too high; f) input voltage out of range; g) input voltage ripple too high; h) Fan block						
General purpose com. Port	RS485 (Bluetooth, GPRS, WLAN optional)						
Operating temperature range	-20°C to 65°C						
Relative humidity in operation	95% without condensation						
Altitude (m)	2000						

Mechanical Data

Dimension (mm) (max)	499x272x145				560x310x155		
Net weight (kg)	15	18	15	18	26	29	31
Cooling	Forced fan						
Protection index	IP21						

Standards

Safety	EN-IEC 62477-1, EN-IEC 62109-1, EN-IEC 62109-2						
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-3-11, EN61000-3-12						