

# 6,000W HYBRID INVERTER

**MODEL: RS-6048K**



## FEATURES

- P65 waterproof and dustproof makes the inverter available for various working conditions.
- Built-in WiFi for mobile monitoring (APP is available).
- Built-in alternative port for generator and emergent load.
- Optional external CT sensor to guarantee 100% self-consumption.
- Programmable supply priority for PV, Battery or Grid.
- Built-in communication port for BMS (RS485).
- User-adjustable charging current and voltage.
- Parallel operation up to 6 units .

## SPECIFICATION OF 10KW ON-GRID INVERTER WITH ENERGY STORAGE

Phase	120/240V Split phase, 120V/208V Two-thirds phase
Maximum PV Input Power	7500W
Rated Output Power	6000VA/6000W
Maximum Charging Power	6000W

### GRID-TIE OPERATION

PV INPUT(DC)	Maximum DC Voltage	600VDC
	Start-up Voltage/Initial Feeding Voltage	120VDC/160VDC
	MPP Voltage Range	120VDC~550VDC
	"Number of MPP Trackers/ Maximum Input Current"	2/15A
GRID OUTPUT(AC)	Nominal Output Voltage	120VAC(P-N)/208VAC(P-P)/240VAC(P-P)
	Output Voltage Range	105.5-132VAC per phase
	Nominal Output Current	25A per phase
	Power Factor	0.9lag to 0.9lead
EFFICIENCY	Maximum Conversion Efficiency(DC/AC)	96%

## OFF-GRID OPERATION

AC INPUT	AC Start-up Voltage/Auto Restart Voltage	85 VAC(per phase)/90 VAC(per phase)
	Acceptable Input Voltage Range	85-140VAC(P-N)(per phase)
	Frequency Range	50Hz/60Hz(Auto sensing)
	Maximum AC Input Current	40A per phase
PV INPUT(DC)	Maximum DC Voltage	600VDC
	MPP Voltage Range	120VDC~550VDC
	Number of MPP Trackers/ Maximum Input Current	2/15A
BATTERY MODE OUTPUT(AC)	Nominal Output Voltage	120VAC(P-N)/208VAC(P-P)/240VAC(P-P)
	Output Waveform	Pure sine wave
	Efficiency(DC to AC)	91%

## HYBRID OPERATION

PV INPUT(DC)	Maximum DC Voltage	600VDC
	Start-up Voltage/Initial Feeding Voltage	120VDC/160VDC
	MPP Voltage Range	120VDC~550VDC
	Number of MPP Trackers/ Maximum Input Current	2/15A
GRID OUTPUT(AC)	Nominal Output Voltage	120VAC(P-N)/208VAC(P-P)/240VAC(P-P)
	Output Voltage Range	105.5-132VAC per phase
	Nominal Output Current	25A per phase
AC INPUT	AC Start-up Voltage/Auto Restart Voltage	85 VAC(per phase)/90 VAC(per phase)
	Acceptable Input Voltage Range	85-140VAC(P-N)
	Maximum AC Input Current	40A per phase
BATTERY MODE OUTPUT(AC)	Nominal Output Voltage	120VAC (P-N), 208VAC (P-P), 240VAC(P-P)
	Efficiency(DC to AC)	91%
BATTERY & CHARGER	Nominal DC Voltage Range	40-62VDC
	Maximum Solar Charging Current	120A
	Maximum AC Charging Current	120A
	Maximum Charging Current	120A

## GENERAL

PHYSICAL	Dimension, DxWxH(mm)	215.5x515x700
	Net Weight(kgs)	41
INTERFACE	Parallel Function	Yes, 6units
	Communication Port	RS232, RS485, WI-FI, USB
ENVIRONMENT	Operating Temperature	-25°C to 60°C(>45°C derating)
STANDARD	Protection Degree	IP 65
	Safety	UL 1741SAm, CSA 22.2.107.1
	Grid Connection Standard	IEEE 1547.1:2020
	EMC	FCC CRF47 PART15 B