

12,000W HYBRID INVERTER

MODEL: RS-H12K



FEATURES

- P65 waterproof and dustproof for various working conditions.
- Support multiple input & output- Split phase 208/240Vac or single phase 230Vac.
- Built-in AC coupled function.
- Built-in WiFi for mobile monitoring (APP is available).
- Accepts second input power source, generator input compatible.
- Optionalexternal CT sensor to guarantee 100% self-consumption.
- Built-in communication port for BMS (RS485).
- User-adjustable charging current and voltage.
- Parallel operation up to 6 units.
- Built-in Arc Fault detection (AFD) and Rapid Shutdown (RSD).



SPECIFICATION OF 10KW ON-GRID INVERTER WITH ENERGY STORAGE

Phase	120/240V Split phase, 120V/208V Two-thirds phase
Maximum PV Input Power	12000W
Rated Output Power	10000VA/10000W
Maximum Charging Power	10000W

GRID-TIE OPERATION

PV INPUT(DC)	Maximum DC Voltage	600VDC
	Start-up Voltage/Initial Feeding Voltage	125VDC/160VDC
	MPP Voltage Range	120VDC~550VDC
	"Number of MPP Trackers/ Maximum Input Current"	2/18A
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	41.5A 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	2/18A
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	125VDC/160VDC
	MPP Voltage Range	120VDC~550VDC
	Number of MPP Trackers/ Maximum Input Current	2/18A
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	41.5A 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	200A
	Maximum AC Charging Current	200A
	Maximum Charging Current	200A

GENERAL

PHYSICAL	Dimension, DxWxH(mm)	215.5x515x715
	Net Weight(kgs)	45
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 1741SA, CSA 22.2.107.1, CEC (list pending)
	Grid Connection Standard	IEEE 1547.1:2020; IEEE 1547:2018, California Rule 21
	EMC	FCC Part 15 Class B