

RHI-5K-48ES-5G

Solis Energy Storage Inverters



360 degree

Features:

- ▶ Uninterrupted power supply, 20ms reaction
- ▶ 5kW backup power to support more important loads
- ▶ With shifting and peak shaving capabilities friendly to grid
- ▶ Multiple working modes to make maximize self-consumption, increase benefit
- ▶ Higher charge-discharge efficiency, improving the economic benefits
- ▶ Compatible with lithium & lead-acid batteries, increased more choice in different markets
- ▶ Fanless design, long lifespan
- ▶ Intelligent BMS function, improving battery's reliability
- ▶ With high-frequency isolation technology, making system safer and long lifespan
- ▶ 24-hour fully intelligent energy management, Real-time grasp of PV plant status
- ▶ Remotely control & upgrade function, making digital power plant maintenance at your fingertips



Model:

RHI-5K-48ES-5G

Datasheet

Model Name	RHI-5K-48ES-5G
Input DC(PV side)	
Recommended max. PV power	8kW
Max. input voltage	600V
Rated voltage	330V
Start-up voltage	120V
MPPT voltage range	90-520V
Max. input current	11A/11A
Max. short circuit current	17.2A/17.2A
MPPT number/Max. input strings number	2/2
Battery	
Battery type	Li-ion/Lead-acid
Battery voltage range	42 - 58V
Battery capacity	50 - 2000Ah
Max. charging power	5kW
Max. charge/discharge current	100A/100A
Communication	CAN/RS485
Output AC(Back-up)	
Rated output power	5kW
Max. apparent output power	6kVA
Back-up switch time	<20ms
Rated output voltage	1/N/PE, 220/230V
Rated frequency	50/60Hz
Rated output current	22A
THDv	2% (linear load)
Output AC(Grid side)	
Rated output power	5kW
Max. apparent output power	5.5kVA
Rated grid voltage	1/N/PE, 220/230V
Rated grid frequency	50/60Hz
Rated grid output current	21.7A
Max. output current	23.9A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)
THDi	<2%
Efficiency	
Max. efficiency	>97.5%
EU efficiency	>96.8%
Protection	
Ground fault monitoring	Yes
Integrated AFCI (DC arc-fault circuit protection)	Optional
DC reverse-polarity protection	Yes
Protection class/Over voltage category	I/II
General Data	
Dimensions (W*H*D)	333*505*249 mm
Weight	17kg
Topology	High frequency isolation (for battery)
Operating ambient temperature range	-25 ~ +60°C
Ingress protection/ Pollution degree	IP65/ PD3
Cooling concept	Natural convection
Max. operation altitude	2000m
Grid connection standard	EN50438, G98, G99, AS4777.2:2015, VDE0126-1-1, IEC 61727, VDE N4105, CEI 0-21,CE
Safety/EMC standard	IEC62040-1, IEC62109-1/-2, AS3100, NB/T 32004, EN61000-6-2, EN61000-6-3
Features	
DC connection	MC4 connector
AC connection	Quick connection plug
Display	7.0"LCD color screen display
Communication	RS485, Optional: Wi-Fi, GPRS