

# RHI-5K-48ES

Solis Energy Storage Inverters



360 degree

## Features:

- ▶ 2 MPPT design with precise MPPT algorithm
- ▶ Compatible with both lead-acid battery and li-ion battery
- ▶ Off-grid backup function
- ▶ Export Control
- ▶ UPS function
- ▶ Intelligent EMS function
- ▶ Multiple protection functions
- ▶ CAN, RS485 (optional)
- ▶ Various work mode for different application scenario
- ▶ Natural cooling without external fan



## Model:

RHI-5K-48ES

## Datasheet

Model Name	RHI-5K-48ES
<b>Input DC(PV side)</b>	
Recommended max. PV power	6.5kW
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
<b>Battery</b>	
Battery type	Li-ion/Lead-acid
Battery voltage range	42 - 58V
Battery capacity	50 - 2000Ah
Max. charging power	3kW
Max. charge/discharge current	62.5A/62.5A
Communication	CAN/RS485
<b>Output AC(Back-up)</b>	
Rated output power	3kW
Max. apparent output power	4kVA
Back-up switch time	<10ms
Rated output voltage	1/N/PE, 220/230V
Rated frequency	50/60Hz
Rated output current	13A
THDv	2% (linear load)
<b>Output AC(Grid side)</b>	
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%
<b>Efficiency</b>	
Max. efficiency	>97.5%
EU efficiency	>96.8%
<b>Protection</b>	
Ground fault monitoring	Integrated
DC reverse-polarity protection	Yes
Protection class/Over voltage category	I/II
<b>General Data</b>	
Dimensions (W*H*D)	333*505*249 mm
Weight	17kg
Topology	High frequency isolation (for battery)
Operating ambient temperature range	-25 ~ +60°C
Ingress protecton/ 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
<b>Features</b>	
DC connection	MC4 connector
AC connection	Quick connection plug
Display	7.0"LCD color screen display
Communication	RS485, Optional: Wi-Fi, GPRS