

# RHI-5K-48ES

Solis Energy Storage Inverters



## Features:

- ▶ Solis Intelligent Hybrid PV Inverter
- ▶ Dual MPPT - 5K
- ▶ Off-grid backup function
- ▶ Export Control
- ▶ UPS function
- ▶ Intelligent EMS function
- ▶ Multiple protection functions
- ▶ CAN, RS485, WiFi/LAN/GRPS (Optional)



## Model:

RHI-5K-48ES

## Datasheet

Model Name	RHI-5K-48ES
<b>Input DC(PV side)</b>	
Max. DC input power(kW)	6.5
The max DC input voltage(V)	600
Nominal DC voltage(V)	330
Start-up DC voltage(V)	120
MPPT operating voltage range(V)	90-520
The rating max dc input current(A/B)	11A+11A
Max. Short Circuit current for each MPPT	17.2A+17.2A
MPPT number/Max input strings number	2/A:1; B:1
<b>Battery</b>	
Battery Type	Li-ion
Battery Voltage range(V)	42 -58
Battery Capacity (Ah)	50-2000
Maximum Charging Power(kW)	3
Maximum Charge/discharge current(A)	62.5/62.5
<b>Output AC(Back-up)</b>	
Rating output power(kW)	3
Transient max. apparent output power	4kVA, 10sec
Back-up switch time	<10ms
Operation phase	Single Phase
Rated grid voltage(V)	220/230/240
Rated frequency(Hz)	50/60
Rated output current(A)	13
THDi	2%(linear load)
<b>Output AC(Grid side)</b>	
Rated output power(kW)	5
Max. apparent output power(kVA)	5.5
Operation phase	L-N-PE
Rated grid voltage	220/230/240Vac
Rated grid frequency(Hz)	50/60Hz
Rated grid output current(A)	21.7
Max. output current(A)	23.9 (21.7 for AUS)
Output power factor	1 (default) and 0.8leading ... 0.8lagging adjustable
Output THDi	<2%
<b>Efficiency</b>	
Max efficiency of Solar Inverting	>97.5%
European efficiency of Solar Inverting	>96.8%
Max efficiency of Battery Inverting	>95%
Max efficiency of Battery charging	>95%
<b>Protection</b>	
Ground fault monitoring	Integrated
Residual current monitoring unit	Integrated
DC AFCI	Optional
DC reverse polarity protection	Yes
Protection class/Over voltage category	I/III
<b>General data</b>	
Dimensions (mm)	333W*505H*249D
Weight(kg)	17
Operation temperature range	-25~60°C
Protection degree/ Pollution degree	IP65/ PD3
Inverter Topology	High frequency isolation (for battery)
Noise emission (typical)	<20dBA
Cooling concept	Natural convection
Max.operation altitude	2000m
Design lifetime	>20 years
Grid connection standard	EN50438, G98, G99,AS4777.2:2015, VDE0126-1-1, IEC61727, VDE N4105
Safety / EMC standard	IEC62040-1, IEC62109-1/-2, AS3100, NB/T 32004, EN61000-6-2, EN61000-6-3
AC and DC Connections	Quick Connector
Display	7.0"LCD color screen display
Interface	CAN/RS485/WiFi/GPRS optional
Warranty	5 Years /10 Years /15 Years /20 Years