

# RHI-(3-5)K-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-3K-48ES	RHI-3.6K-48ES
RHI-4.6K-48ES	RHI-5K-48ES

## Datasheet

Model Name	RHI-3K-48ES	RHI-3.6K-48ES	RHI-4.6K-48ES	RHI-5K-48ES
<b>Input DC(PV side)</b>				
Recommended max. PV power	4kW	5kW	6kW	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	3kW	3.6kW	4.6kW	5kW
Max. apparent output power	3.3kVA	4kVA	4.6kVA	5.5kVA
Rated grid voltage	1/N/PE, 220/230V			
Rated grid frequency	50/60Hz			
Rated grid output current	13A	15.7A	20.9A	21.7A
Max. output current	15.7A	17.3A	23A	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			