

RHI-4.6K-48ES

Solis Energy Storage Inverters



Features:

- ▶ Solis Intelligent Hybrid PV Inverter
- ▶ Dual MPPT - 3K, 3.6K, 4.6K, 5K
- ▶ Off-grid backup function
- ▶ Export Control
- ▶ UPS function
- ▶ Intelligent EMS function
- ▶ Multiple protection functions
- ▶ CAN, RS485, WiFi/LAN/GRPS (Optional)



Model:

RHI-4.6K-48ES

Datasheet

Model Name	RHI-4.6K-48ES
Input DC(PV side)	
Max. DC input power(kW)	6
The max DC input voltage(V)	600
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
Battery	
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
Output AC(Back-up)	
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)
Output AC (Grid side)	
Input voltage range(V)	180-270
Max. iutput current(A)	23.9
Frequency range(Hz)	47-52 or 57-62
Output AC(Grid side)	
Rated output power(kW)	4.6
Rating grid output current(A)	20.9
Max. output current(A)	23 (21.7 for AUS)
Output power factor	1 (default) and 0.8leading ... 0.8lagging adjustable
Efficiency	
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%
Protection	
Ground fault monitoring	Integrated
Residual current mornitoring unit	Integrated
DC AFCI	Optional
DC reverse polarity protection	Yes
Protection class/Over voltage category	I/III
General data	
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	4000m
Design lifetime	>20 years
Grid connection standard	EN50438, AS4777.2:2015, VDE0126-1-1, IEC61727, VDE N4105, G98, G99
Safty/EMC standard	IEC62040-1, IEC62109-1/-2, AS3100, , NB/T 32004, EN61000-6-1, EN61000-6-3
AC and DC Connections	Quick Connector
Display	7.0"LCD color screen display
Interface	CAN/RS485/WiFi/GPRS optional
Warranty	5/ 10/ 15/ 20 Years