

RHI-5K-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-5K-48ES

Datasheet

| Model Name | RHI-5K-48ES |
|--|---|
| Input DC(PV side) | |
| Max. DC input power(kW) | 6.5 |
| 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) | 5 |
| Rating 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 |
| 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 |