RHI-1P(5-10)K-HVES-5G

Solis PV Storage Inverter



Features:

- Leading ROI
- Top-of-class 98.4% efficiency
- Wide product range (5-10kW)
- Dynamic MPPTs (2 MPPTs w/ 4 DC inputs)
- 3 operating modes: self-consumption; time-of-use; off-grid backup
- Compatible with LG and other 120V-500V lithium batteries
- Built-in Sunspec MLRSD signal transmitter
- Ready for NEC 2017-2020
- Sealed enclosure with built-in AC/DC wiring box and ATS
- Large color LCD for easy programming
- 24-hour intelligent energy management system



Model:

RHI-1P5K-HVES-5G
RHI-1P6K-HVES-5G
RHI-1P7K-HVES-5G
RHI-1P7.6K-HVES-5G
RHI-1P8K-HVES-5G
RHI-1P9K-HVES-5G
RHI-1P10K-HVES-5G

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Datasheet

Model Name	RHI-1P5K-HVES-5G	RHI-1P6K-HVES-5G	RHI-1P7K-HVES-5G	RHI-1P7.6K-HVES-5G	RHI-1P8K-HVES-5G	RHI-1P9K-HVES-5G	RHI-1P10K-HVES-5G
Input DC (PV side)							
Max. input power	7000W	8400W	9800W	10600W	11200W	12600W	14000W
Max. input voltage	500V						
Rated voltage	330V						
Start-up voltage	120V						
MPPT voltage range	90-450V						
Max. input current	26A/26A						
Max. short circuit current	40A/40A						
MPPT number/Max. input strings number	2/4						
Battery							
Battery type	Li-ion						
Battery voltage range	120-500V						
Battery capacity	50-2000Ah						
Max. charging Power	7000W						
Max. charge/discharge current	20A						
Communication	CAN/RS485						
Output AC (back-up)							
Rated output power	6000W						
Max. apparent output power	7000W						
Back-up switch time	<10ms						
Rated output voltage (L-L)	240V						
Rated output voltage (L-N)*	120V						
Rated frequency	60Hz						
Rated output current	25A						
THDv	<3% (linear load)						
Output AC (grid side)							
Rated output power	5000W	6000W	7000W	7600W	8000W	9000W	10000W
Rated grid voltage	240V						
Rated grid frequency	60Hz						
Rating grid output current	24A/21A	28.8A/25A	33.7A/29.2A	36.5A/31.7A	38.5A/33.3A	43.3A/37.5A	48A/41.7A
Max. output current	40A/40A	40A/40A	40A/40A	40A/50A	50A/50A	50A/50A	60A/60A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)						
THDi	<3%						
Efficiency							
Max. efficiency	98%						
CEC efficiency	97.5%						
Protection							
Ground fault monitoring	Yes						
Integrated AFCI (DC arc-fault circuit protection)	Yes						
DC reverse-polarity protection	Yes						
Rapid Shutdown NEC 2017	Built-in MLRSD Sunspec Transmitter						
Compliant MLRSD Products	TS4-A-F/2F, APSmart RSD-S-PLC						
Protection class/Over voltage category	I/II						
General data							
Dimensions (W*H*D)	20.2*28.1*7.8 in (514*717*250 mm)						
Weight	66.1 lbs (30 kgs)						
Operating temperature range	-13°F to 140°F (-25°C to 60°C)						
Ingress protection/Pollution degree	NEMA 4X/PD3						
Topology	Transformerless						
Cooling concept	Natural convection						
Max. operation altitude	6, 560 ft (2000 m)						
Grid connection standard	IEEE1547A, UL 1741-SA, ISO-NE, Rule 21						
Safety/EMC standard	UL 1741, UL1998, UL1699B, CAN/CSA C22.2 107.1-1,FCC Part 15 Class B						
Compatible batteries	BYD B-Box H5.0/7.5/10, LG Chem RESU10H Type R						
Features							
DC connection	2 knockout for 1'' conduit at side and bottom, Fuse screw terminal						
AC connection	3 knockout for 1'' conduit at side and bottom, Screw clamp terminal (Max. 7 AWG)						
Display	7.0"LCD color screen display						
Communication	RS485, Optional: Wi-Fi, GPRS						