

RHI-3P(5-10)K-HVES-5G

Solis High Voltage Energy Storage Inverters



Features:

- ▶ Uninterrupted power supply, 10ms connection
- ▶ UPS ensures AC backup for up to 6kW of continuous power and 7kVA of peak power
- ▶ 3 operating modes (self-consumption; time-of-use; off-grid back-up) & programmable energy management to make maximizes self-consumption
- ▶ Optional 24-hour load consumption monitoring solution
- ▶ Remotely control and upgrade any selected inverter, making digital power plant maintenance at your fingertips
- ▶ Optional arc fault circuit interrupter (AFCI) function



Model:

RHI-3P5K-HVES-5G	RHI-3P6K-HVES-5G
RHI-3P8K-HVES-5G	RHI-3P10K-HVES-5G

Datasheet

Model Name	RHI-3P5K-HVES-5G	RHI-3P6K-HVES-5G	RHI-3P8K-HVES-5G	RHI-3P10K-HVES-5G
Input DC(PV side)				
Max. input power	6.5kW	7.8kW	10.4kW	13kW
Max. input voltage	1000V			
Rated voltage	600V			
Start-up voltage	160V			
MPPT voltage range	160-850V			
Max. input current	12.5A/12.5A		25A/12.5A	25A/25A
Max. Short Circuit current	19.5A/19.5A		39/19.5A	39/39A
MPPT number/Max. input strings number	2/2		2/3	2/4
Battery				
Battery Type	Li-ion/Lead acid			
Communication interface	CAN/RS485			
Battery voltage range	160~600 V			
Max. charging and discharging power	5kW	6kW	8kW	10kW
Max. charging and discharging current	30A			
Output AC (Grid side)				
Rated output power	5kW	6kW	8kW	10kW
Max. output power	5kW	6kW	8kW	10kW
Rated grid voltage	3/N/PE, 220/380V, 230/400V			
Rated grid frequency	50Hz/60Hz			
Rated grid output current	7.6A/7.2A	9.1A/8.7A	12.2A/11.5A	15.2A/14.4A
Max. output current	8.4A	10A	13.4A	16.7A
Power factor	>0.99 (Adjustable from 0.8 leading to 0.8 lagging)			
THDi	<2%			
Output AC (Back-up)				
Rated output power	5kW	6kW	8kW	10kW
Max. output apparent power	5kW	6kW	8kW	10kW
Peak output apparent power	10kW, 60sec	12kW, 60sec	16kW, 60sec	16kW, 60sec
Back-up switch time	<0.5s			
Rated output voltage	3/N/PE, 220/380V, 230/400V			
Rated frequency	50Hz/60Hz			
Rated output current	7.6A/7.2A	9.1A/8.7A	12.2A/11.5A	15.2A/14.4A
Max. output current	8.4A	10A	13.4A	16.7A
THDi	<2%			
Efficiency				
Max. efficiency of Solar Inverting	98.4%			
EU efficiency of Solar Inverting	97.7%			
MPPT efficiency	99.9%			
Battery charge/discharge Efficiency	97.5%			
Protection				
Anti-islanding protection	Yes			
Output over current protection	Yes			
Output short protection	Yes			
DC switch	Yes			
DC reverse polarity protection	Yes			
PV overvoltage protection	Yes			
Battery reverse protection	Yes			
General data				
Dimensions (W*H*D)	516mm*415mm*180mm			
Weight	24kg (Reference)			
Topology	Transformerless			
Self consumption (Night)	<7W (Night)			
Operating ambient temperature range	-25~60°C			
Relative humidity	0~100%			
Ingress protection	IP65			
Cooling concept	Natural convection			
Max. operation altitude	4000m			
Grid connection standard	VDE-AR-N 4105, VDE V 0124, VDE V 0126-1-1, UTE C15-712-1, NRS 097-1-2, G98, G99, EN 50549-1/-2, RD 1699, UNE 206006, UNE 206007-1, CEI 0-21			
Safety/EMC standard	IEC 62109-1/-2, EN 61000-6-2/-3			
Features				
DC connection	MC4			
AC connection	Quick Connector			
Display	LCD, 2×20 Z.			
Communication	RS485; CAN; WiFi (optional)			