

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

Solis Energy Storage Inverters



360 degree

Features:

- ▶ Max. efficiency is 98.4%
- ▶ 2 MPPT and 4 DC input; Max 26A DC input current
- ▶ three operating modes (self-consumption; time-of-use; off-grid back-up) & programmable energy management
- ▶ Power supply can be switched automatically and switching time within 40ms
- ▶ Ensures AC backup for up to 10kW of continuous power and 16kVA of peak power
- ▶ Time of use shifting and peak shaving capabilities to grid
- ▶ Solis supply optional arc fault circuit interrupter (AFCI) function
- ▶ Intelligent EMS function
- ▶ Support three-phase imbalance
- ▶ 24-hour fully intelligent energy management, Real-time grasp of PV plant status
- ▶ Remotely control & upgrade function, making digital power plant maintenance at your fingertips



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)				
Recommended max. PV power	8 kW	9.6 kW	12.8 kW	16 kW
Max. input voltage	1000 V			
Rated voltage	600 V			
Start-up voltage	160 V			
MPPT voltage range	200-850 V			
Max. input current	13 A / 13 A		26 A / 13 A	26 A / 26 A
Max. short circuit current	19.5 A / 19.5 A		39 A / 19.5 A	39 A / 39 A
MPPT number/Max. input strings number	2/2		2/3	2/4
Battery				
Battery type	Li-ion			
Battery voltage range	160-600 V			
Max. charge / discharge power	5 kW	6 kW	8 kW	10 kW
Max. charge / discharge current	25 A			
Communication	CAN/RS485			
Output AC (Grid side)				
Rated output power	5 kW	6 kW	8 kW	10 kW
Max. apparent output power	5 kVA	6 kVA	8 kVA	10 kVA
Operation phase	3/N/PE			
Rated grid voltage	380 V / 400 V			
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A
Max. output current	8.4 A	10 A	13.4 A	16.7 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)			
THDi	<2%			
Output AC (Back-up)				
Rated output power	5 kW	6 kW	8 kW	10 kW
Max. apparent output power	5 kVA	6 kVA	8 kVA	10 kVA
Peak apparent output power	10 kVA, 60 sec	12 kVA, 60 sec	16 kVA, 60 sec	16 kVA, 60 sec
Back-up switch time	< 40 ms			
Rated output voltage	3/N/PE, 380 V / 400 V			
Rated frequency	50 Hz / 60 Hz			
Rated output current	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A
Max. output current	8.4 A	10 A	13.4 A	16.7 A
THDv (linear load)	<2%			
Efficiency				
Max. efficiency	98.4%			
EU efficiency	97.7%			
MPPT efficiency	99.9%			
Battery charge/discharge efficiency	97.5%			
Protection				
Anti-islanding protection	Yes			
Output over current protection	Yes			
Short circuit protection	Yes			
DC switch	Yes			
DC reverse-polarity protection	Yes			
PV over voltage protection	Yes			
Battery reverse protection	Yes			
General Data				
Dimensions (W*H*D)	535*455*181 mm			
Weight	25.1 kg			
Topology	Transformerless			
Self consumption (night)	<7 W			
Operating ambient temperature range	-25 ~ +60°C			
Relative humidity	0-100%			
Ingress protection	IP65			
Cooling concept	Natural convection			
Max. operation altitude	4000 m			
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, 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 connector			
AC connection	Quick connection plug			
Display	LCD			
Communication	RS485, Optional: Wi-Fi, GPRS			