

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

Solis Energy Storage Inverters



360 degree

Features:

- ▶ Max. efficiency 98.4%
- ▶ 2 MPPT and 4 DC input; Max 26A DC input current
- ▶ 3 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-3P3K-HVES-5G	RHI-3P4K-HVES-5G
RHI-3P5K-HVES-5G	RHI-3P6K-HVES-5G
RHI-3P8K-HVES-5G	RHI-3P10K-HVES-5G

Datasheet

Model Name	RHI-3P3K-HVES-5G	RHI-3P4K-HVES-5G	RHI-3P5K-HVES-5G	RHI-3P6K-HVES-5G	RHI-3P8K-HVES-5G	RHI-3P10K-HVES-5G
Input DC (PV side)						
Recommended max. PV power	4.8 kW	6.4 kW	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	3 kW	4 kW	5 kW	6 kW	8 kW	10 kW
Max. charge / discharge current	25 A					
Communication	CAN/RS485					
Output AC (Grid side)						
Rated output power	3 kW	4 kW	5 kW	6 kW	8 kW	10 kW
Max. apparent output power	3.3 kVA	4.4 kVA	5.5 kVA	6.6 kVA	8.8 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	4.5 A / 4.3 A	6.1 A / 5.8 A	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	5.1 A / 4.8 A	6.8 A / 6.4 A	8.4 A / 8.0 A	10 A / 9.6 A	13.4 A / 12.8 A	15.2 A / 14.4 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)					
THDi	<2%					
Output AC (Back-up)						
Rated output power	3 kW	4 kW	5 kW	6 kW	8 kW	10 kW
Peak apparent output power	10 kVA, 60 sec	10 kVA, 60 sec	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	4.5 A / 4.3 A	6.1 A / 5.8 A	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 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	Optional					
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	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15/VFR:2019, RD 1699/RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA					
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3					
Features						
DC connection	MC4 connector					
AC connection	Quick connection plug					
Display	LCD					
Communication	RS485, Optional: Wi-Fi, GPRS					