

RHI-3P(5-10)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
- ▶ 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	8kW	9.6kW	12.8kW	16kW
Max. input voltage	1000V			
Rated voltage	600V			
Start-up voltage	160V			
MPPT voltage range	200-850V			
Max. input current	13A/13A		26A/13A	26A/26A
Max. short circuit current	19.5A/19.5A		39A/19.5A	39A/39A
MPPT number/Max. input strings number	2/2		2/3	2/4
Battery				
Battery type	Li-ion			
Battery voltage range	160-600V			
Max. charge/discharge power	5kW	6kW	8kW	10kW
Max. charge/discharge current	25A			
Communication	CAN/RS485			
Output AC (Grid side)				
Rated output power	5kW	6kW	8kW	10kW
Max. apparent output power	5kVA	6kVA	8kVA	10kVA
Operation phase	3/N/PE			
Rated grid voltage	380/400V			
Rated grid frequency	50/60Hz			
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 (0.8 leading - 0.8 lagging)			
THDi	<2%			
Output AC (Back-up)				
Rated output power	5kW	6kW	8kW	10kW
Max. apparent output power	5kVA	6kVA	8kVA	10kVA
Peak apparent output power	10kVA, 60 sec	12kVA, 60 sec	16kVA, 60 sec	16kVA, 60 sec
Back-up switch time	< 40ms			
Rated output voltage	3/N/PE, 380/400V			
Rated frequency	50/60Hz			
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	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			
Output short 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	25.1kg			
Topology	Transformerless			
Self consumption	<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 connector			
AC connection	Quick connection plug			
Display	LCD			
Communication	RS485, Optional: Wi-Fi, GPRS			