

S6-EH3P7K-H-LV

Solis Three Phase High Voltage Energy Storage Inverters

Features:

- Integrated 4 MPPTs for multiple array orientations
- Supports operation under 230V low-voltage grid conditions
- Industry leading 50A max charge/discharge current
- Automatic UPS switching
- Supports Peak Shaving Mode
- Compatible with multiple brands of lithium battery models
- Increased battery protection and operation features to extend battery life

Models:

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360° View



DATASHEET

S6-EH3P7K-H-LV

Models	7K
Input DC (PV side)	
Recommended max. PV array size	14 kW
Max. usable PV input power	11.2 kW
Max. input voltage	1000 V
Rated voltage	600 V
Start-up voltage	160 V
MPPT voltage range	200 - 850 V
Max. input current	4 × 16 A
Max. short circuit current	4 × 24 A
MPPT number / Max. input strings number	4 / 4
Battery	
Battery type	Li-ion
Battery voltage range	120 - 600 V
Max. charge / discharge power	7 kW
Max. charge / discharge current	50 A
Communication	CAN / RS485
Output AC (Grid side)	
Rated output power	7 kW
Max. apparent output power	7 kVA
Rated grid voltage	3/(N)/PE, 127 V / 220 V, 133 V / 230 V
Rated grid frequency	50 Hz / 60 Hz
Rated grid output current	17.6 A
Max. output current	17.6 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)
THDi	< 3%
Input AC (Grid side)	
Input voltage range	184 - 265 V
Max. input current	17.6 A
Rated grid frequency	50 Hz / 60 Hz
Frequency range	45 - 55 Hz / 55 - 65 Hz
Output AC (Back-up)	
Rated output power	7 kW
Max. apparent output power	11.2 kVA, 60 s
Back-up switch time	< 10 ms
Rated output voltage	3/(N)/PE, 127 V / 220 V, 133 V / 230 V
Rated frequency	50 Hz / 60 Hz
Rated output current	17.6 A
THDv (@linear load)	< 2%
Efficiency	
Max. efficiency	98.2%
EU efficiency	97.5%
BAT charged by PV max. efficiency	98.2%
BAT charged / discharged to AC max. efficiency	96.1% / 96.5%
Protection	
Anti-islanding protection	Yes
Output over current protection	Yes
Short circuit protection	Yes
Integrated AFCI 2.0	Optional
Integrated DC switch	Yes
DC reverse-polarity protection	Yes
PV over voltage protection	Yes
Battery reverse protection	Yes
General Data	
Max. allowable phase imbalance (grid & back-up)	100%
Max. power per phase (grid & back-up)	50% rated power
Dimensions (W × H × D)	600 × 500 × 230 mm
Weight	32.6 kg
Topology	Transformerless
Self-consumption (night)	< 25 W
Operating ambient temperature range	-25 ~ +60°C
Relative humidity	0 - 95%
Ingress protection	IP66
Noise emission (typical)	< 30 dB(A)
Cooling concept	Natural cooling
Max. operation altitude	4000 m
Grid connection standard	EN5049-1, VDE4105, REN342
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3
Features	
PV connection	MC4 connector
Battery connection	Quick connection plug
AC connection	Quick connection plug
Display	LED indicator & Bluetooth + APP
Communication	CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN