

DATASHEET

S6-EH1P8K-L-PRO

Models	8K
Input DC (PV side)	
Recommended max. PV power	12.8 kW
Max. input voltage	600 V
Rated voltage	330 V
Start-up voltage	90 V
MPPT voltage range	90-520 V
Max. input current	32 A / 20 A
Max. short circuit current	36 A / 30 A
MPPT number/Max. input strings number	2/3
Battery	
Battery type	Li-ion / Lead-acid
Battery voltage range	40-60 V
Max. charge / discharge power	8 kW
Max. charge / discharge current	190 A
Communication	CAN/RS485
Output AC (Grid side)	
Rated output power	8 kW
Max. apparent output power	8.8 kVA
Operation phase	1/N/PE
Rated grid voltage	220 V / 230 V
Rated grid frequency	50 Hz
Rated grid output current	36.4 A / 34.8 A
Max. output current	40 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)
THDi	<2%
Input AC (Grid side)	
Input voltage range	187-253 V
Max. input current	50 A
Frequency range	45-55 Hz / 55-65 Hz
Output AC (Back-up)	
Rated output power	8 kW
Max. apparent output power	2 times of rated power, 10 s
Back-up switch time	<4 ms
Rated output voltage	1/N/PE, 220 V / 230 V
Rated frequency	50 Hz
Rated output current	36.4 A / 34.8 A
Max. output current	40 A
Max. AC Passthrough current	50 A
THDv (@linear load)	<2%
Efficiency	
Max. efficiency	> 96.9%
EU efficiency	> 96.5%
Protection	
DC reverse-polarity protection	Yes
Ground fault monitoring	Yes
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾
Protection class/Over voltage category	I/II (PV and BAT), III (MAINS and BACKUP and GEN)
General Data	
Dimensions (W*H*D)	406*560*215 mm
Weight	26 kg
Topology	High frequency isolation (for battery)
Operating ambient temperature range	-40 ~ +60°C
Ingress protection	IP66
Cooling concept	Intelligent redundant fan-cooling
Max. operation altitude	4000 m
Grid connection standard	NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA
Safety/EMC standard	IEC/EN 62109-1/-2, EN 61000-6-2/-3
Features	
DC connection	MC4 plug (PV port) / Terminal Block (BAT port)
AC connection	Terminal Block
Display	LED + APP
Communication	RS485, CAN, Optional: Wi-Fi, GPRS, LAN

(1) Activation required.