

S6-EH3P(8-15)K02-NV-YD-L

Solis Three Phase Low Voltage Energy Storage Inverters

Features:

- Generator-compatible to extend backup duration during grid power outage
- Multiple inverters can operate together to form a microgrid
- Supports dual backup ports for intelligent control of critical and non-critical loads
- 10 seconds of 200% overload capability
- Supports a maximum input current of 20A, making it ideal for all high-power PV modules of any brand
- Ensures excellent power supply stability, keeping the load unaffected by a weak grid or generator supply fluctuations
- The battery's DC side can handle a maximum charge/discharge current of up to 290A, allowing it to store more surplus energy generated by PV systems
- Supports Unbalanced and Half-Wave Loads on both the Grid and Backup Port

Models:

S6-EH3P8K02-NV-YD-L

S6-EH3P10K02-NV-YD-L

S6-EH3P12K02-NV-YD-L

S6-EH3P15K02-NV-YD-L



DATASHEET

S6-EH3P(8-15)K02-NV-YD-L

Models	8K	10K	12K	15K
Input DC (PV side)				
Max. usable PV input power	12.8 kW	16 kW	19.2 kW	24 kW
Max. input voltage			1000 V	
Rated voltage			550 V	
Start-up voltage			160 V	
MPPT voltage range			200 - 850 V	
Max. input current		20 A / 40 A		40 A / 40 A
Max. short circuit current		30 A / 50 A		50 A / 50 A
MPPT number / Max. input strings number		2 / 3		2 / 4
Battery				
Battery type			Li-ion / Lead-acid	
Battery voltage range			40 - 60 V	
Max. charge / discharge current	180 A	220 A	250 A	290 A
Communication			CAN / RS485	
Output AC (Grid side)				
Rated output power	8 kW	10 kW	12 kW	15 kW
Max. apparent output power	8 kVA	10 kVA	12 kVA	15 kVA
Operation phase			3/N/PE	
Rated grid voltage			380 V / 400 V	
Rated grid frequency			50 Hz / 60 Hz	
Rated grid output current	12.2 A / 11.5 A	15.2 A / 14.4 A	18.2 A / 17.3 A	22.8 A / 21.7 A
Max. output current	12.2 A / 11.5 A	15.2 A / 14.4 A	18.2 A / 17.3 A	22.8 A / 21.7 A
Power factor			> 0.99 (0.8 leading - 0.8 lagging)	
THDi			< 3%	
Input AC (Grid side)				
Input voltage range			323 - 460 V	
Max. input current	18.3 A / 17.3 A	22.8 A / 21.7 A	27.3 A / 26.0 A	34.2 A / 32.5 A
Frequency range			45 - 55 Hz / 55 - 65 Hz	
Input Generator				
Max. input power	8 kW	10 kW	12 kW	15 kW
Max. input current	12.2 A	15.2 A	18.2 A	22.8 A
Rated input voltage			3/N/PE, 380 V / 400 V	
Rated input frequency			50 Hz / 60 Hz	
Output AC (Back-up)				
Rated output power	8 kW	10 kW	12 kW	15 kW
Max. apparent output power			2 times of rated power, 10 s	
Back-up switch time			< 10 ms	
Rated output voltage			3/N/PE, 380 V / 400 V	
Rated frequency			50 Hz / 60 Hz	
Rated output current	12.2 A / 11.5 A	15.2 A / 14.4 A	18.2 A / 17.3 A	22.8 A / 21.7 A
Max. continuous output current	12.2 A	15.2 A	18.2 A	22.8 A
Max. continuous AC passthrough current			50 A	
THDv (@linear load)			< 3%	
Efficiency				
Max. efficiency			97.6%	
EU efficiency			97.0%	
Protection				
Anti-islanding protection			Yes	
Output over current protection			Yes	
Short circuit protection			Yes	
DC reverse-polarity protection			Yes	
Surge protection			Yes	
General Data				
Dimensions (W × H × D)			430 × 660 × 305 mm	
Weight			42 kg	
Topology			Non-isolated	
Operating ambient temperature range			-40 ~ +60°C	
Ingress protection			IP66	
Noise emission (typical)			< 65 dB(A)	
Cooling concept			Intelligent fan-cooling	
Max. operation altitude			4000 m	
Grid connection standard			NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, Sri Lanka, EN 50438L, Vietnam, PEA, MEA	
Safety / EMC standard			IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3	
Features				
DC connection			MC4 Quick connection plug (PV) & Screw terminal (Battery)	
AC connection			Screw terminal	
Display			7.0" LCD display & Bluetooth + APP	
Communication			CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN	