

## 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
<b>Input DC (PV side)</b>				
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	
<b>Battery</b>				
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			
<b>Output AC (Grid side)</b>				
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%			
<b>Input AC (Grid side)</b>				
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			
<b>Input Generator</b>				
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			
<b>Output AC (Back-up)</b>				
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%			
<b>Efficiency</b>				
Max. efficiency	97.6%			
EU efficiency	97.0%			
<b>Protection</b>				
Anti-islanding protection	Yes			
Insulation resistance monitoring	Yes			
Output over current protection	Yes			
Short circuit protection	Yes			
DC reverse-polarity protection	Yes			
Surge protection	Yes			
<b>General Data</b>				
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, SriLanka, EN 50438L, Vietnam, PEA, MEA			
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3			
<b>Features</b>				
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: S3-WiFi-ST, Cellular, LAN			