

Solis Three Phase Low Voltage Energy Storage Inverters

S6-EH3P(12-15)K02-NV-YD-L

MOTOMA®
Power into the Future

Models:

S6-EH3P12K02-NV-YD-L

S6-EH3P15K02-NV-YD-L



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

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Models	12KW	15KW
Input DC (PV side)		
Max. usable PV input power	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	250 A	290 A
Communication	CAN / RS485	
Output AC (Grid side)		
Rated output power	12 kW	15 kW
Max. apparent output power	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	18.2 A / 17.3 A	22.8 A / 21.7 A
Max. output current	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	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	12 kW	15 kW
Max. input current	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	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	18.2 A / 17.3 A	22.8 A / 21.7 A
Max. continuous output current	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	