solis | 20th ANNIVERSARY

SOLARATOR SERIES

Experience Uninterrupted Power with Solis Energy Storage Inverters

S6-EH3P(75-125)K10-NV-YD-H

Three Phase | High Voltage

6 Leading Features

- Supports flexible PV connection through DC and AC coupling for retrofitting and expanding
- Supports battery reserve function in multiple scenarios
- Smart Load Prioritizing – Extending support for critical loads
- SmartLoad/GEN/INV port - Flexible connection of multiple energy sources such as Grid-tied inverter, diesel generator, wind turbines, etc.
- Seamless on grid/off grid switching time <10ms
- Support max 10 pcs in parallel mode, >6 pcs recommend Solis power distribution cabinet

8 Unique Features

- Usable PV power up to 200% inverter rated power, to improve the utilization of PV generation
- Supports max 21A PV input current, perfect match for high power PV modules
- Compatible with 100-314Ah battery modules
- Supports faster charging with battery current up to 200A
- Powerful backup overload capability – 160% overload
- Supports a wide power range of generator connections from 25kVA to 125kVA
- Supports 2 independent battery connections for flexible configuration
- 7-inch large screen uses U.S.-made ZEITLER industrial-grade components

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DATASHEET

S6-EH3P(75-125)K10-NV-YD-H

Models	75K	80K	100K	125K
Input DC (PV side)				
Recommended max. PV array size	150 kW	160 kW	200 kW	240 kW
Max. usable PV input power	150 kW	160 kW	200 kW	240 kW
Max. input voltage	1000 V			
Rated voltage	600 V			
Start-up voltage	180 V			
MPPT voltage range	150 - 950 V			
Max. input current	10 × 42 A			
Max. short circuit current	10 × 60 A			
MPPT number / Max. input strings number	10 / 20			
Battery				
Battery type	Li-ion			
Battery voltage range	300 - 950 V			
Max.charge / discharge current	200 A / 100 A + 100 A			
Number of battery ports	2			
Max. charge / discharge current of each port	100 A			
Communication	CAN / RS485			
Output AC (Grid side)				
Rated output power	75 kW	80 kW	100 kW	125 kW
Max. apparent output power	75 kVA	80 kVA	100 kVA	125 kVA
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V			
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	114 A / 108.3 A	121.6 A / 115.5 A	152 A / 144.3 A	180.4 A / 189.9 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)			
THDi	< 3%			
Input AC (Grid side)				
Max. input current	250 A			
Output AC (Back-up)				
Rated output power	75 kW	80 kW	100 kW	125 kW
Max. apparent output power	1.2 times of rated power, 10 mins; 1.4 times of rated power, 100 s; 1.6 times of rated power, 10 s; 2 times of rated power, 200 ms			1.2 times of rated power, 100 s 1.4 times of rated power, 10 s 1.6 times of rated power, 200 ms
Back-up switch time	< 10 ms			
Rated output voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V			
Rated frequency	50 Hz / 60 Hz			
THDv (@linear load)	< 2%			
Efficiency				
Max. efficiency	97.6%			
EU efficiency	97.2%			
BAT charged / discharged to AC max. efficiency	97.0%			
Protection				
Anti-islanding protection	Yes			
Output over current protection	Yes			
Short circuit protection	Yes			
Integrated DC switch	Yes			
DC reverse-polarity protection	Yes			
Surge protection	DC Type II / AC Type II			
Integrated AFCI 2.0	Yes	Optional	Optional (Brazil: Yes)	
Protection class / Over voltage category	I / II			
General Data				
Max. allowable phase imbalance (grid & back-up)	100%			
Max. power per phase (grid & back-up)	25.00 kW	26.66 kW	33.33 kW	41.66 kW
Dimensions (W × H × D)	1174 × 814 × 400 mm			
Weight	170 kg			
Topology	Transformerless			
Operating ambient temperature range	-25 ~ +60°C			
Ingress protection	IP66			
Cooling concept	Intelligent fan-cooling			
Max. operation altitude	3000 m			
Grid connection standard	G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1&2/EN 50549-10, VDE 0126/UTE C 15/VFR:2019, NTS 631/RD 1699/RD 244/ UNE 206006/UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA,PORTARIA Nº 140, DE 21 DE MARÇO DE 2022; Brazil (75K: ORDINANCE (PORTARIA) NO.140, ORDINANCE NO. 515; 100K/125K: NBR 16149, NBR 16150, IEC 62116)			
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4, EN 55011			
Features				
PV connection	MC4 Quick connection plug			
Battery connection	Terminal connector			
AC connection	Terminal block			
Display	7.0" LCD display & Bluetooth + APP			
Communication	CAN, RS485-115200, Ethernet, Optional: Wi-Fi, Cellular, LAN			

Preliminary