



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



9 Unique Advantages

- Supports PV input up to 200% of the inverter's rated DC power, maximising solar utilisation
- Supports up to 21A PV input current, compatible with the latest high-power PV modules
- Compatible with 100-314Ah battery cells, helping reduce energy storage system costs
- Supports battery charge/discharge current up to 200A, ideal for peak-valley arbitrage and frequency regulation applications
- 160% overload for 200ms in off-grid mode, ensuring stable startup of motors and water pumps
- Supports generator input across a wide range (20%–100% of rated power), reducing investment costs
- Two independent battery connections, allowing more flexible system configuration
- AI-Powered & VPP-Ready - maximise savings, unlock additional income
- 7-inch industrial-grade screen, providing a larger, user-friendly interface for local operation

6 Leading Advantages

- Supports DC and AC coupling for PV, allowing flexible system expansion and retrofitting
- Battery reserve function across multiple scenarios, ensuring reliable backup power
- Smart Load management with prioritisation, extending backup time for critical loads
- Smart port enables multiple energy source inputs, including grid-tied inverters, diesel generators, and wind turbines
- Seamless on/off-grid switching in under 10ms, guaranteeing uninterrupted power supply
- Supports up to 10 units in parallel. For systems with more than 6 units, use of a Solis power distribution cabinet is recommended

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DATASHEET

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

Models	75K	80K	99.9K	100K	125K
Input DC (PV side)					
Recommended max. PV array size	150 kW	160 kW	200 kW	200 kW	250 kW
Max. usable PV input power	150 kW	160 kW	200 kW	200 kW	250 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	99.9 kW	100 kW	125 kW
Max. apparent output power	75 kVA	80 kVA	99.9 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	151.8 A / 144.2 A	152 A / 144.3 A	189.9 A / 180.4 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	99.9 kW	100 kW	125 kW
Max. apparent output power	75-100K: 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; 125K: 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%				
Input AC (Generator)					
Max. input power	75 kW	80 kW	99.9 kW	100 kW	125 kW
Rated input current	114.0 A / 108.3 A	121.6 A / 115.5 A	151.8 A / 144.2 A	151.9 A / 144.3 A	189.9 A / 180.4 A
Rated input voltage	3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V				
Rated input frequency	50 Hz / 60 Hz				
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/ DC II, AC III				
General Data					
Max. allowable phase imbalance (grid & back-up)	100%				
Max. power per phase (grid & back-up)	25.00 kW	26.66 kW	33.3 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				
Relative humidity	0 - 100%				
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				