SOLARATOR SERIES

Works with a Wide Range of Batteries: Experience Uninterrupted Power, Even in Areas with Grid Instability

S6-EH3P(80-125)K10-NV-YD-H

Three Phase | High Voltage

7 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
- 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

3 Leading Advantages

- Supports DC and AC coupling for PV, allowing flexible system expansion and retrofitting
- Smart port enables multiple energy source inputs, including grid-tied inverters, diesel generators, and wind turbines
- Supports up to 10 units in parallel. For systems with more than 6 units, use of a Solis power distribution cabinet is recommended

UK

t: +44 113 328 0870 (sales) e: europesales@solisinverters.com w: solisinverters.com/uk
+44 1514 536515 (service) ukservice@solisinverters.com

DATASHEET

S6-EH3P(80-125)K10-NV-YD-H

Models	80K	100K	125K
Input DC (PV side)			
Recommended max. PV array size	160 kW	200 kW	250 kW
Max. usable PV input power	160 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	80 kW	100 kW	125 kW
Max. apparent output power	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	121.6 A / 115.5 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	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%		
Input AC (Generator)			
Max. input power	80 kW	100 kW	125 kW
Rated input current	121.6 A / 115.5 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	Optional		
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)	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		
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		
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		