


**80-125K**

## 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

### 12 Unique Advantages

- ★ Supports up to 2x rated PV input, maximizing solar energy utilization
- ★ Supports a maximum string input current of 21A, ensuring compatibility with high-power PV modules
- ★ Compatible with 100-314Ah battery modules, reducing overall system costs
- ★ Supports fast battery charging with a maximum charging current of 200A
- ★ Two independent battery ports for flexible configurations and easy capacity expansion
- ★ Delivers 160% overload for 200ms in off-grid mode, ensuring stable startup of heavy loads
- ★ Offers flexible control for weak grid and genset-hybrid scenarios, reducing investment costs
- ★ AI integration and VPP readiness enable dynamic tariff optimization, minimizing electricity expenses and unlocking additional revenue
- ★ Integrates PV and storage for demand management and anti-reverse flow functions
- ★ Provides dynamic reactive power compensation to improve grid power factor and reduce reactive power charges
- ★ Utility bypass function allows direct grid supply to backup loads
- ★ Patented cooling technology ensures reliable operation even under high-temperature conditions

### 6 Leading Advantages

- Supports both DC and AC coupling, for flexible retrofits and system expansions
- Ensures reliable backup power across diverse scenarios through battery reserve management
- Extends supply time for critical loads with intelligent load prioritization
- Offers a versatile three-in-one interface for seamless integration of on-grid PV, wind power, and diesel generators
- Achieves on- and off-grid transitions in less than 10ms, ensuring an uninterrupted power supply
- Supports multi-unit parallel operation up to 1.25MW (Solis STS cabinet recommended for systems over 6 units)

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## DATASHEET

Models	80K	99.9K	100K	125K
<b>Input DC (PV side)</b>				
Recommended max. PV array size	160 kW	200 kW	200 kW	250 kW
Max. usable PV input power	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	
<b>Battery</b>				
Battery type			Li-ion	
Battery voltage range			300 - 950 V	
Max. charge / discharge current			100 A × 2 / 100 A × 2	
Number of battery ports			2	
Max. charge / discharge current of each port			100 A	
Communication			CAN / RS485	
<b>Output AC (Back-up)</b>				
Rated output power	80 kW	99.9 kW	100 kW	125 kW
Max. apparent output power		1.6 times of rated power, 10 s; 2 times of rated power, 200 ms		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; 3/N/PE, 230 V / 400 V	
Rated frequency			50 Hz / 60 Hz	
THDv (@linear load)			< 3%	
<b>Input AC (Grid side)</b>				
Max. input current			250 A	
<b>Input AC (Generator)</b>				
Max. input power	80 kW	99.9 kW	100 kW	125 kW
Rated input current	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	
<b>Output AC (Grid side)</b>				
Rated output power	80 kW	99.9 kW	100 kW	125 kW
Max. apparent output power	80 kVA	99.9 kVA	100 kVA	125 kVA
Rated grid voltage		3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V		
Rated grid frequency			50 Hz / 60 Hz	
Rated grid output current	121.6 A / 115.5 A	151.8 A / 144.2 A	151.9 A / 144.3 A	189.9 A / 180.4 A
Power factor			> 0.99 (0.8 leading - 0.8 lagging)	
THDv			< 3%	
<b>Efficiency</b>				
Max. efficiency			97.5%	
EU efficiency	96.9%	97.1%	97.1%	97.2%
BAT charged / discharged to AC max. efficiency			97.0%	
<b>Protection</b>				
Anti-islanding protection			Yes	
Output over current protection			Yes	
Short circuit protection			Yes	
Integrated DC switch			Yes	
DC reverse-polarity protection			Yes	
Protection class / Over voltage category			I / DC II, AC III	
Surge protection			DC Type II / AC Type II	
Integrated AFCI 2.0			Optional	
<b>General Data</b>				
Max. power per phase (grid & back-up)	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 redundant fan-cooling	
Max. operation altitude			3000 m	
Grid connection standard <sup>①</sup>	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 <sup>①</sup>	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4, EN 55011			
<b>Features</b>				
PV connection			MC4 Quick connection plug	
Battery connection			Terminal connector	
AC connection			Terminal block	
Display			7.0" LCD display & Bluetooth + APP	
Communication interface	Standard: WIFI+LAN+Bluetooth, CAN-BMS × 2, CAN-Parallel × 2, LAN, RS485-Meter, RS485, DRM, DI × 5, DO × 4; Optional: 4G			

<sup>①</sup> This column only shows the planned certification standards. Please confirm the specific time of obtaining the standards with the local team.