

**125K**

# SOLARATOR SERIES

Experience Uninterrupted Power with Solis Energy Storage Inverters

## S6-EH3P125K10-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
- ★ SolisCloud: Smart remote control, AI optimisation, and instant troubleshooting - all in one platform
- ★ 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)

CINLONG TECHNOLOGIES CO., LTD.

t: +86 574 6580 2188 e: sales@ginlong.com  
w: solisinverters.com service@ginlong.com



## DATASHEET

Models	125K
<b>Input DC (PV side)</b>	
Recommended max. PV array size	250 kW
Max. usable PV input power	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	200 A / 100 A + 100 A
Number of battery ports	2
Max. charge / discharge current of each port	100 A
Communication	CAN / RS485
<b>Output AC (Grid side)</b>	
Rated output power	125 kW
Max. apparent output power	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	189.9 A / 180.4 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)
THDi	< 3%
<b>Input AC (Grid side)</b>	
Max. input current	250 A
<b>Output AC (Back-up)</b>	
Rated output power	125 kW
Max. apparent output power	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%
<b>Input AC (Generator)</b>	
Max. input power	125 kW
Rated input current	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>Efficiency</b>	
Max. efficiency	97.6%
EU efficiency	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
Surge protection	DC Type II / AC Type II
Integrated AFCI 2.0	Optional
Protection class / Over voltage category	I/ DC II, AC III
<b>General Data</b>	
Max. allowable phase imbalance (grid & back-up)	100%
Max. power per phase (grid & back-up)	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 N° 140, DE 21 DE MARÇO DE 2022
Safety / EMC standard	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	CAN, RS485-115200, Ethernet, Optional: Wi-Fi, Cellular, LAN