



**30-50K**

# SOLARATOR SERIES

Experience Uninterrupted Power with Solis Energy Storage Inverters

## S6-EH3P(30-50)K-H-ND

Three Phase | High Voltage

### 8 Unique Advantages

- ★ Supports up to 2x rated PV input, maximizing solar energy utilization
- ★ Supports a maximum string input current of 20A, ensuring compatibility with high-power PV modules
- ★ Compatible with 100–280Ah battery modules, reducing overall system costs
- ★ Supports fast battery charging with a maximum charging current of 140A
- ★ Two independent battery ports for flexible configurations and easy capacity expansion
- ★ Delivers 160% overload for 2s in off-grid mode, ensuring stable startup of heavy loads
- ★ Supports generator input across a wide range (20%–100% of rated power), reducing investment costs
- ★ SolisCloud: Smart remote control, AI optimisation, and instant troubleshooting - all in one platform

### 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 500kW (Solis STS cabinet recommended for systems over 6 units)

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# DATASHEET

Models	30K	40K	49K	50K
<b>Input DC (PV side)</b>				
Recommended max. PV array size	60 kW	80 kW	98 kW	100 kW
Max. usable PV input power	60 kW	80 kW	96 kW	96 kW
Max. input voltage	1000 V			
Rated voltage	600 V			
Start-up voltage	180 V			
MPPT voltage range	150 - 850 V			
Max. input current	40 A / 40 A / 40 A		4 × 40 A	
Max. short circuit current	60 A / 60 A / 60 A		4 × 60 A	
MPPT number / Max. input strings number	3 / 6		4 / 8	
<b>Battery</b>				
Battery type	Li-ion			
Battery voltage range	150 - 800 V			
Max. charge / discharge power	33 kW	44 kW	53.9 kW	55 kW
Max. charge / discharge current	70 A × 2 <sup>①</sup>			
Number of battery ports	2			
Max. charge / discharge power of each input	33 kW	35 kW	35 kW	35 kW
Communication	CAN / RS485			
<b>Output AC (Grid side)</b>				
Rated output power	30 kW	40 kW	49 kW	50 kW
Max. apparent output power	30 kVA	40 kVA	49 kVA	50 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	45.6 A / 43.3 A	60.8 A / 57.7 A	74.5 A / 70.7 A	76 A / 72.2 A
Max. output current	45.6 A / 43.3 A	60.8 A / 57.7 A	74.5 A / 70.7 A	76 A / 72.2 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)			
THDi	< 3%			
<b>Input AC (Grid side)</b>				
Max. AC passthrough current	91.2 A / 86.6 A	121.6 A / 115.4 A	149 A / 141.4 A	152 A / 144.4 A
Rated input voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V			
Rated input frequency	50 Hz / 60 Hz			
<b>Input Generator</b>				
Max. input power	30 kW	40 kW	49 kW	50 kW
Rated input current	45.6 A / 43.3 A	60.8 A / 57.7 A	74.5 A / 70.7 A	76 A / 72.2 A
Rated input voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V			
Rated input frequency	50 Hz / 60 Hz			
<b>Output AC (Back-up)</b>				
Rated output power	30 kW	40 kW	49 kW	50 kW
Max. apparent output power	1.6 times of rated power, 2 s			
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			
Rated output current	45.6 A / 43.3 A	60.8 A / 57.7 A	74.5 A / 70.7 A	76 A / 72.2 A
THDv (@linear load)	< 2%			
<b>Efficiency</b>				
Max. efficiency	97.8%			
EU efficiency	97.4%			
BAT charged by PV max. efficiency	98.5%			
BAT charged / discharged to AC max. efficiency	97.5%			
<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			
<b>General Data</b>				
Dimensions (W × H × D)	530 × 880 × 290 mm			
Weight	73 kg			
Topology	Transformerless			
Self-consumption (night)	< 35 W			
Operating ambient temperature range	-25 ~ +60°C			
Relative humidity	0 - 100%			
Ingress protection	IP66			
Cooling concept	Intelligent fan-cooling			
Max. operation altitude	4000 m			
Grid connection standard	G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1/EN 50549-10, VDE 0126/UTE C 15/MFR: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			
<b>Features</b>				
PV connection	MC4 Quick connection plug			
Battery connection	Terminal connector			
AC connection	Terminal Block			
Display	LED indicator & Bluetooth + APP			
Communication	CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN			

① Supporting parallel 140A input.