



solis

20th
ANNIVERSARY

NEW

solis



35K

SOLARATOR SERIES

Operates Seamlessly with Generator: Experience Uninterrupted Power, Even in Areas with Grid Instability

S6-EH3P35K-H-LV(21A)

Three Phase | High Voltage

10 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 160A
- ★ 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
- ★ 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

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 350kW (Solis STS cabinet recommended for systems over 6 units)

PHILIPPINES

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DATASHEET

Models	35K
Input DC (PV side)	
Recommended max. PV array size	70 kW
Max. usable PV input power	70 kW
Max. input voltage	1000 V
Rated voltage	600 V
Start-up voltage	180 V
MPPT voltage range	150 - 850 V
Max. input current	3 × 42 A
Max. current per DC input	42 A
Max. short circuit current	3 × 60 A
MPPT number / Max. input strings number	3 / 6
Battery	
Battery type	Li-ion
Battery voltage range	150 - 800 V
Max. charge / discharge current	80 A × 2
Number of battery ports	2
Max. charge / discharge power of each input	35 kW
Communication	CAN / RS485
Output AC (Back-up)	
Rated output power	35 kW
Max. apparent output power	1.6 times of rated power, 2 s; 1.5 times of rated power, 10 s
Back-up switch time	< 10 ms
Rated output voltage	3/(N)/PE, 127 V / 220 V; 3/(N)/PE, 133 V / 230 V
Rated frequency	50 Hz / 60 Hz
THDv (@linear load)	< 2%
Input AC (Grid side)	
Max. input current	152 A / 152 A
Input AC (Generator)	
Max. input power	35 kW
Rated input current	91.8 A / 87.8 A
Rated input voltage	3/(N)/PE, 127 V / 220 V; 3/(N)/PE, 133 V / 230 V
Rated input frequency	50 Hz / 60 Hz
Output AC (Grid side)	
Rated output power	35 kW
Max. apparent output power	35 kVA
Rated grid voltage	3/(N)/PE, 127 V / 220 V; 3/(N)/PE, 133 V / 230 V
Rated grid frequency	50 Hz / 60 Hz
Rated grid output current	91.8 A / 87.8 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)
THDi	< 3%
Efficiency	
Max. efficiency	96.3%
EU efficiency	95.5%
Battery charged efficiency	97.4%
Battery discharged efficiency	95.8%
Protection	
Surge protection	DC Type II / AC Type II
Output over current protection	Yes
Integrated DC switch	Yes
DC reverse-polarity protection	Yes
Protection class / Over voltage category	I / PV II, battery II, AC III
Integrated AFCI 2.0	Optional
General Data	
Max. allowable phase imbalance (grid & back-up)	100%
Max. power per phase (grid & back-up)	33%
Dimensions (W × H × D)	530 × 880 × 290 mm
Weight	76 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	4000 m
Grid connection standard	G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1/EN 50549-10, PTPIREE, VDE 0126/XP C15/VFR:2019, NTS 631/RD 1699/RD 244/UNE 217002, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, DEWA, MEA, PEA, PORTARIA N° 140/PORTARIA N° 515
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4, EN 55011
Features	
PV connection	MC4 connector
Battery connection	Terminal connector
AC connection	OT terminal
Display	7.0" LCD display & Bluetooth + APP
Communication	CAN, RS485-115200, Optional: Wi-Fi, Cellular, LAN