

S6-EH3P(29.9-50)K-H-AU

Solis Three Phase High Voltage Energy Storage Inverters

Features:

- Integrated 4 MPPTs and string current up to 20A
- Up to 70A+70A/140A max charge/discharge current
- Supports peak shaving control in both "self-use" and "generator" mode
- Support 1.6 times overload in short time on Backup port
- Generator connectivity with multiple input methods and automatic generator On/Off control
- Max. 6 pcs parallel for on-grid and off-grid operation
- Increased battery protection and operation features to extend battery life
- Support wide voltage range suitable for multiple batteries

Models:

S6-EH3P29.9K-H-AU / S6-EH3P30K-H-AU

S6-EH3P40K-H-AU / S6-EH3P50K-H-AU



DATASHEET

S6-EH3P(29.9-50)K-H-AU

Models	29.9K	30K	40K	50K
Input DC (PV side)				
Recommended max. PV power	41.86 kW	42 kW	56 kW	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*40 A		4*40 A	
Max. short circuit current	3*60 A		4*60 A	
MPPT number/Max. input strings number	3*6		4*8	
Battery				
Battery type	Li-ion			
Battery voltage range	150-800 V			
Max. charge / discharge power	29.9 kW	33 kW	44 kW	55 kW
Max. charge / discharge current	70 A*2 ⁽¹⁾			
No. of battery input	2			
Communication	CAN/RS485			
Output AC (Grid side)				
Rated output power	29.9 kW	30 kW	40 kW	50 kW
Max. apparent output power	29.9 kVA	30 kVA	40 kVA	50 kVA
Rated grid voltage	3/N/PE, 380 V/400 V			
Rated grid frequency	50 Hz			
Rated grid output current	45.4 A / 43.2 A	45.6 A / 43.3 A	60.8 A / 57.7 A	76 A / 72.2 A
Max. output current	45.4 A / 43.2 A	45.6 A / 43.3 A	60.8 A / 57.7 A	76 A / 72.2 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)			
THDi	< 3%			
Input AC (Grid side)				
Max. Continuous AC Passthrough	152 A			
Rated input voltage	3/N/PE, 380 V / 400 V			
Rated input frequency	50 Hz			
Input Generator				
Max. input power	29.9 kW	30 kW	40 kW	50 kW
Rated input voltage	3/N/PE, 380 V / 400 V			
Rated input frequency	50 Hz			
Output AC (Back-up)				
Rated output power	29.9 kW	30 kW	40 kW	50 kW
Max. apparent output power	1.6 time of rated power, 2 s			
Back-up switch time	< 10 ms			
Rated output voltage	3/N/PE, 380 V / 400 V			
Rated frequency	50 Hz			
Rated output current	45.4 A / 43.2 A	45.6 A / 43.3 A	60.8 A / 57.7 A	76 A / 72.2 A
THDv (@linear load)	< 2%			
Efficiency				
Max. efficiency	97.6%			
EU efficiency	97.0%			
BAT charged by PV Max. efficiency	98.5%			
BAT charged/discharged to AC Max. efficiency	97.5%			
Protection				
Anti-islanding protection	Yes			
Output over current protection	Yes			
Short circuit protection	Yes			
Integrated DC switch	Optional			
DC reverse-polarity protection	Yes			
Surge protection	DC Type II / AC Type II			
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽²⁾			
General Data				
Dimensions (W*H*D)	530*880*290mm			
Weight	73 kg			
Topology	Non-isolated			
Self-consumption (night)	<25 W			
Operating ambient temperature range	-25 ~ +60°C			
Relative humidity	0-95%			
Ingress protection	IP66			
Cooling concept	Intelligent redundant fan-cooling			
Max. operation altitude	4000 m			
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, 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			
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3			
Features				
PV connection	MC4 Quick connection plug			
Battery connection	OT terminal			
AC connection	OT terminal			
Display	LED + Bluetooth + APP			
Communication	CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN			
Country of manufacture	China			

(1) Supporting parallel 140A input. (2) Activation required.