

RocheXEnergy

Hybrid ESS Cabinet

80kW/100kW/125kW Hybrid Inverter

156kWh/209kWh/261kWh Liquid Cooling Cabinet



NEW



Solis Solarator Series

Experience Uninterrupted Power with Solis Energy Storage Inverters

S6-EH3P(75-125)K10-NV-YD-H

Three Phase | High Voltage



Smart Energy Management

High Performance

Flexible & Scalable

Simple & Fast Configuration



Extreme Reliability



Ultimate Safety



Global Standards



Integrated Excellence



Intelligent O&M

DATASHEET

S6-EH3P(75-125)K10-NV-YD-H

Models	75K	80K	100K	125K
Input DC (PV side)				
Recommended max. PV array size	150 kW	160 kW	200 kW	240 kW
Max. usable PV input power	150 kW	160 kW	200 kW	240 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			
Battery				
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			
Output AC (Grid side)				
Rated output power	75 kW	80 kW	100 kW	125 kW
Max. apparent output power	75 kVA	80 kVA	100 kVA	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	114 A / 108.3 A	121.6 A / 115.5 A	152 A / 144.3 A	180.4 A / 189.9 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)			
THDi	< 3%			
Input AC (Grid side)				
Max. input current	250 A			
Output AC (Back-up)				
Rated output power	75 kW	80 kW	100 kW	125 kW
Max. apparent output power	1.2 times of rated power, 10 mins; 1.4 times of rated power, 100 s; 1.6 times of rated power, 10 s; 2 times of rated power, 200 ms			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%			
Efficiency				
Max. efficiency	97.6%			
EU efficiency	97.2%			
BAT charged / discharged to AC max. efficiency	97.0%			
Protection				
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	Yes	Optional	Optional (Brazil: Yes)	
Protection class / Over voltage category	I / II			
General Data				
Max. allowable phase imbalance (grid & back-up)	100%			
Max. power per phase (grid & back-up)	25.00 kW	26.66 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			
Ingress protection	IP66			
Cooling concept	Intelligent fan-cooling			
Max. operation altitude	3000 m			
Grid connection standard	80K/100K/125K: G99, VDE-AR-N 4105/VDEV 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; 75K: ORDINANCE (PORTARIA) NO.140, ORDINANCE NO. 515; 100K/125K: NBR 16149, NBR 16150, IEC 62116			
Safety / EMC standard	75K/80K/100K/125K: IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4, EN 55011; 100K/125K: IEC 61000-3-4/-5/-11/-12			
Features				
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			

ENERGY STORAGE SYSTEM

DC Parameters			
Battery Capacity	156kwh	209kwh	261kWh
Cell Capacity	314Ah		
PACK	1P156S	1P208S	1P260S
Rated Voltage	499.2V	665.6V	832V
Charge/Discharge Rate	0.5P		
Protection Functions			
AC Side	Molded Case Circuit Breaker		
DC Side	Isolator Switch+Fuselisolator Switch + Fuse		
Fire Protection	Novec 1230 + Water Fire Suppression System		
Configuration of safety	Gas fire suppression + Water-based fire suppression + Ventilation + Explosion-proof plates		
Enviroment Conditions			
Operating Temperature	-30~50℃（Derating above 45℃）		
Altitude	≤2000m		
Humidity	0~95%（Non-condensing）		
Physical Characteristics			
Weight	<2.7T		
Dimensions（W*H*D）	~989mm*2471.5mm*1465mm		
Ingress protection	IP67 for battery, IP54 for cabinet		
IP Rating	C4（C5 Optional）		
Others			
Cooling Method	Liquid Cooling		
Communication Interface	CAN/Ethernet/485		
Maximum number of paralleled units(On/off Grid)	10		
Certifate	IEC62619, IEC63056:2000, IEC61000, IEC62477-1, UN38.3, IEC 60730, UL9540A		