



SolisStorage

SolisStorage Residential Energy Storage System



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SOLARATOR SERIES

Works with a Wide Range of Batteries: Experience Uninterrupted Power, Even in Areas with Grid Instability

3-10K

Residential Low Voltage Single Phase Hybrid Inverters

S6-EH1P(3-8)K-L-PLUS
S6-EH1P(9-10)K-L-PLUS(21A)



- Supports PV input up to 160% of the inverter's rated DC power, maximising solar utilisation
- Supports up to 21A PV input current, compatible with future higher-power PV modules
- 200% overload for 10s in off-grid mode, ensuring stable startup of motors, water pumps and air conditioners
- Seamless on/off-grid switching in under 10ms, guaranteeing an uninterrupted power supply
- More battery options, compatible with any battery (between 40V-60V)
- Supports existing PV grid-tied power connection for export control and off-grid use
- Multiple methods of generator connection and auto control, enabling flexible local deployment
- Support max 6 units in parallel, expanding system capacity
- Smart Load management, extending backup time for critical loads
- Customizable battery backup level for uninterrupted power
- Supports PV-only off-grid operation, reducing upfront costs
- AI-Powered & VPP-Ready - maximise savings, unlock additional income
- 7-inch industrial-grade touchscreen, providing a larger, user-friendly interface for local operation
- Ingress protection IP66, for operation in harsh conditions

DATASHEET

Models	3K	3.6K	5K	6K	8K	9K(21A)	10K(21A)
Input DC (PV side)							
Recommended max. PV array size	6 kW	7.2 kW	10 kW	12 kW	16 kW	18 kW	20 kW
Max. usable PV input power	4.8 kW	5.76 kW	8 kW	9.6 kW	12.8 kW	14.4 kW	16 kW
Max. input voltage				500 V			
Rated voltage				330 V			
Start-up voltage				90 V			
MPPT voltage range				90 - 435 V			
Max. input current				16 A / 16 A		32 A / 32 A	
Max. short circuit current				20 A / 20 A		40 A / 40 A	
MPPT number / Max. input strings number				2 / 2		2 / 4	
Battery							
Battery type	Li-ion / Lead-acid						
Battery voltage range	40 - 60 V						
Max. charge / discharge power	3 kW	3.6 kW	5 kW	6 kW	8 kW	9 kW	10 kW
Max. charge / discharge current	70 A	80 A	112 A	135 A	190 A	200 A	210 A
Communication	CAN / RS485						
SolisStorage Battery							
Compatible battery module	SBAT-R(5-16)kWh-L-WM-OD; SBAT-R(5-16)kWh-L-WM-ID; SBAT-R(5-10)kWh-L-WM-ID-SE; SBAT-R(5-40)kWh-L-ST-OD						
Number of modules per controller	1 - 8 pcs						
Battery module voltage range	44.8 - 57.6 V						
Output AC (Grid side)							
Rated output power	3 kW	3.6 kW	5 kW	6 kW	8 kW	9 kW	10 kW
Max. apparent output power	3 kVA	3.6 kVA	5 kVA	6 kVA	8 kVA	9 kVA	10 kVA
Operation phase	L/N/PE						
Rated grid voltage	220 V / 230 V						
Rated grid frequency	50 Hz / 60 Hz						
Rated grid output current	13.7 A / 13.1 A	16.4 A / 15.7 A	22.8 A / 21.8 A	27.3 A / 26.1 A	36.4 A / 34.8 A	40.9 A / 39.1 A	45.5 A / 43.5 A
Max. output current	13.7 A / 13.1 A	16.4 A / 15.7 A	22.8 A / 21.8 A	27.3 A / 26.1 A	36.4 A / 34.8 A	40.9 A / 39.1 A	45.5 A / 43.5 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)						
THDi	< 3%						
Input AC (Grid side)							
Input voltage range	187 - 253 V						
Max. input current	21 A	25 A	32 A	40 A	50 A	60 A	65 A
Frequency range	45 - 55 Hz / 55 - 65 Hz						
Output AC (Back-up)							
Rated output power	3 kW	3.6 kW	5 kW	6 kW	8 kW	9 kW	10 kW
Max. apparent output power	2 times of rated power, 10 s						
Back-up switch time	< 10 ms						
Rated output voltage	L/N/PE, 220 V / 230 V						
Rated frequency	50 Hz / 60 Hz						
Rated output current	13.7 A / 13.1 A	16.4 A / 15.7 A	22.8 A / 21.8 A	27.3 A / 26.1 A	36.4 A / 34.8 A	40.9 A / 39.1 A	45.5 A / 43.5 A
Max. AC passthrough current	35 A	35 A	40 A	40 A	50 A	60 A	65 A
THDv (@linear load)	< 2%						
Input Generator							
Max. input power	3 kW	3.6 kW	5 kW	6 kW	8 kW	9 kW	10 kW
Max. input current	13.7 A / 13.1 A	16.4 A / 15.7 A	22.8 A / 21.8 A	27.3 A / 26.1 A	36.4 A / 34.8 A	40.9 A / 39.1 A	45.5 A / 43.5 A
Rated input frequency	50 Hz / 60 Hz						
Efficiency							
Max. efficiency	96.2%						
EU efficiency	96.1%						
BAT charged by PV / AC max. efficiency	95.3% / 93.9%						
BAT discharged to AC max. efficiency	93.8%						
Protection							
Anti-islanding protection	Yes						
Ground fault monitoring	Yes						
DC reverse-polarity protection	Yes						
Integrated AFCI 2.0	Optional						
Protection class / Over voltage category	I / II (PV and BAT), III (MAINS and BACKUP and GEN)						
General Data							
Dimensions (W × H × D)				335 × 560 × 253 mm			
Weight				23 kg	23.5 kg		23.8 kg
Topology	High frequency isolation (for battery)						
Operating ambient temperature range	-25 ~ +60°C						
Relative humidity	0 - 100%						
Ingress protection	IP66						
Noise emission (typical)				< 40 dB(A)		< 65 dB(A)	
Cooling concept				Natural cooling		Intelligent fan-cooling	
Max. operation altitude	3000 m						
Grid connection standard	NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, EN 50549-1, MEA, PEA, NBR 16149, NBR 16150, G98, G99, CEI 0-21, NTS 631 TypeA						
Safety / EMC standard	IEC/EN 62109-1/-2, EN 61000-6-2/-3						
Features							
DC connection	MC4 plug (PV port) / Terminal Block (BAT port)						
AC connection	Terminal Block						
Display	7.0" LCD display & Bluetooth + APP						
Communication	RS485, CAN, Optional: Wi-Fi, GPRS, LAN						

SOLARATOR SERIES

Works with a Wide Range of Batteries: Experience Uninterrupted Power, Even in Areas with Grid Instability

12-18K

Residential Low Voltage Single Phase Hybrid Inverters

S6-EH1P(12-18)K03-NV-YD-L



- Supports PV input up to 160% of the inverter's rated DC power, maximising solar utilisation
- Supports up to 20A PV input current, compatible with future higher-power PV modules
- 200% overload for 10s in off-grid mode, ensuring stable startup of motors, water pumps and air conditioners
- Seamless on/off-grid switching in under 10ms, guaranteeing an uninterrupted power supply
- More battery options, compatible with any battery (between 40V-60V)
- Supports existing PV grid-tied power connection for export control and off-grid use
- Multiple methods of generator connection and auto control, enabling flexible local deployment
- Support max 6 units in parallel, expanding system capacity
- Smart Load management, extending backup time for critical loads
- Customizable battery backup level for uninterrupted power
- Supports PV-only off-grid operation, reducing upfront costs
- AI-Powered & VPP-Ready - maximise savings, unlock additional income
- 7-inch industrial-grade touchscreen, providing a larger, user-friendly interface for local operation
- Ingress protection IP66, for operation in harsh conditions

DATASHEET

Models	12K	14K	16K	18K
Input DC (PV side)				
Recommended max. PV array size	24 kW	28 kW	32 kW	36 kW
Max. usable PV input power	19.2 kW	22.4 kW	25.6 kW	28.8 kW
Max. input voltage	550 V			
Rated voltage	380 V			
Start-up voltage	100 V			
MPPT voltage range	80 - 520 V			
Max. input current	40 A / 40 A / 40 A			42 A / 42 A / 42 A
Max. short circuit current	50 A / 50 A / 50 A			
MPPT number / Max. input strings number	3 / 6			
Battery				
Battery type	Li-ion / Lead-acid			
Battery voltage range	40 - 60 V			
Max. charge / discharge current	250 A	290 A	290 A	320 A
Communication	CAN / RS485			
SolisStorage Battery				
Compatible battery module	SBAT-R(5-16)kWh-L-WM-OD; SBAT-R(5-16)kWh-L-WM-ID; SBAT-R(5-10)kWh-L-WM-ID-SE; SBAT-R(5-40)kWh-L-ST-OD			
Number of modules per controller	1 - 8 pcs			
Battery module voltage range	44.8 - 57.6 V			
Output AC (Grid side)				
Rated output power	12 kW	14 kW	16 kW	18 kW
Operation phase	L/N/PE			
Rated grid voltage	220 V / 230 V			
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	54.5 A / 52.2 A	63.6 A / 60.9 A	72.7 A / 69.6 A	81.8 A / 78.2 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)			
THDi	< 3%			
Input AC (Grid side)				
Input voltage range	187 - 253 V			
Max. input current	81.8 A / 78.3 A	95.5 A / 91.3 A	109.1 A / 104.3 A	122.7 A / 117.4 A
Frequency range	45 - 55 Hz / 55 - 65 Hz			
Output AC (Back-up)				
Rated output power	12 kW	14 kW	16 kW	18 kW
Max. apparent output power	2 times of rated power, 10 s			
Back-up switch time	< 10 ms			
Rated output voltage	L/N/PE, 220 V / 230 V			
Rated frequency	50 Hz / 60 Hz			
Rated output current	54.5 A / 52.2 A	63.6 A / 60.9 A	72.7 A / 69.6 A	81.8 A / 78.2 A
THDv (@linear load)	< 3%			
Input Generator				
Max. input power	12 kW	14 kW	16 kW	18 kW
Max. input current	54.5 A / 52.2 A	63.6 A / 60.9 A	72.7 A / 69.6 A	81.8 A / 78.2 A
Rated input frequency				
Efficiency				
Max. efficiency	97.6%			
EU efficiency	97.0%			
BAT charged by PV max. efficiency	> 94.9%			
BAT charged / discharged to AC max. efficiency	> 94.33% / 93.51%			
Protection				
Surge protection	Yes			
DC reverse-polarity protection	Yes (PV only)			
Ground fault monitoring	Yes			
Integrated AFCI	Optional			
Protection class / Over voltage category	I / II (PV and BAT), III (MAINS and BACKUP and GEN)			
General Data				
Dimensions (W × H × D)	459 × 845 × 313 mm			
Weight	55.5 kg			
Topology	Transformerless			
Operating ambient temperature range	-25 ~ +60° C			
Relative humidity	0 - 100%			
Ingress protection	IP66			
Noise emission (typical)	< 65 dB(A)			
Cooling concept	Intelligent fan-cooling			
Max. operation altitude	4000 m			
Grid connection standard	NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, EN50549-1			
Safety / EMC standard	IEC/EN 62109-1/-2, EN 61000-6-2/-3			
Features				
DC connection	MC4 plug (PV port) / Terminal Block (BAT port)			
AC connection	Terminal Block			
Display	7.0" LCD display & Bluetooth + APP			
Communication	RS485, Optional: Cellular, Wi-Fi, LAN			

SOLARATOR SERIES

Works with a Wide Range of Batteries: Experience Uninterrupted Power, Even in Areas with Grid Instability

8-18K

Residential Low Voltage Three Phase Hybrid Inverters

S6-EH3P(8-18)K02-NV-YD-L



- Supports PV input up to 160% of the inverter's rated DC power, maximising solar utilisation
- Supports up to 21A PV input current, compatible with future higher-power PV modules
- 200% overload for 10s in off-grid mode, ensuring stable startup of motors, water pumps and air conditioners
- Seamless on/off-grid switching in under 10ms, guaranteeing an uninterrupted power supply
- Support three-phase unbalanced output, each phase supports output max. 50% rated inverter power
- Supports both DC and AC coupling—making it easy to expand PV, charge batteries, and power loads reliably, even in off-grid conditions
- Multiple methods of generator connection and auto control, enabling flexible local deployment
- Support max 6 units in parallel, expanding system capacity
- Smart Load management with prioritisation, extending backup time for critical loads
- Customizable battery backup level for uninterrupted power
- Supports PV-only off-grid operation, reducing upfront costs
- AI-Powered & VPP-Ready - maximise savings, unlock additional income
- 7-inch industrial-grade touchscreen, providing a larger, user-friendly interface for local operation
- Ingress protection IP66, for operation in harsh conditions

DATASHEET

Models	8K	10K	12K	15K	18K
Input DC (PV side)					
Recommended max. PV array size	16 kW	20 kW	24 kW	30 kW	36 kW
Max. usable PV input power	12.8 kW	16 kW	19.2 kW	24 kW	28.8 kW
Max. input voltage	1000 V				
Rated voltage	550 V				
Start-up voltage	160 V				
MPPT voltage range	200 - 850 V				
Max. input current	20 A / 40 A		40 A / 40 A		42 A / 42 A
Max. short circuit current	30 A / 50 A		50 A / 50 A		50 A / 50 A
MPPT number / Max. input strings number	2 / 3				2 / 4
Battery					
Battery type	Li-ion / Lead-acid				
Battery voltage range	40 - 60 V				
Max. charge / discharge current	180 A	220 A	250 A		320 A
Number of battery port / Number of BMS port	2 / 1				
Max. charge / discharge current of each port	150 A				175 A
Communication	CAN / RS485				
SolisStorage Battery					
Compatible battery module	SBAT-R(5-16)kWh-L-WM-OD; SBAT-R(5-16)kWh-L-WM-ID; SBAT-R(5-10)kWh-L-WM-ID-SE; SBAT-R(5-40)kWh-L-ST-OD				
Number of modules per controller	1 - 8 pcs				
Battery module voltage range	44.8 - 57.6 V				
Output AC (Grid side)					
Rated output power	8 kW	10 kW	12 kW	15 kW	18 kW
Max. apparent output power	8 kVA	10 kVA	12 kVA	15 kVA	18 kVA
Rated grid voltage	3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V				
Rated grid frequency	50 Hz / 60 Hz				
Rated grid output current	12.2 A / 11.5 A	15.2 A / 14.4 A	18.2 A / 17.3 A	22.8 A / 21.7 A	27.3 A / 26.1 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)				
THDi	< 3%				
Input AC (Grid side)					
Max. input current	18.3 A / 17.3 A	22.8 A / 21.7 A	27.3 A / 26.0 A	34.2 A / 32.5 A	41 A / 39.2 A
Output AC (Back-up)					
Rated output power	8 kW	10 kW	12 kW	15 kW	18 kW
Max. apparent output power	2 times of rated power, 10 s				
Back-up switch time	< 10 ms				
Rated output voltage	3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V				
Rated frequency	50 Hz / 60 Hz				
Rated output current	12.2 A / 11.5 A	15.2 A / 14.4 A	18.2 A / 17.3 A	22.8 A / 21.7 A	27.3 A / 26.1 A
Max. AC passthrough current	50 A				
THDv (@linear load)	< 3%				
Input AC (Generator side)					
Max. input power	8 kW	10 kW	12 kW	15 kW	18 kW
Rated input current	12.2 A / 11.5 A	15.2 A / 14.4 A	18.2 A / 17.3 A	22.8 A / 21.7 A	27.3 A / 26.1 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				
Efficiency					
Max. efficiency	97.5%				
EU efficiency	96.4%				
BAT charged by PV / AC max. efficiency	95.0% / 94.4%				
Battery discharged efficiency	94.5%				
Protection					
Surge protection	DC Type II / AC Type II (Optional)				
Output over current protection	Yes				
Insulation resistance monitoring	Yes				
Residual current detection	Yes				
Integrated PV switch	Yes				
DC reverse-polarity protection	Yes				
Protection class / Over voltage category	I / II (PV and BAT), III (MAINS and BACKUP and GEN)				
Integrated AFCI 2.0	Optional				
Anti-islanding protection	Yes				
General Data					
Max. power per phase	50% rated power				40% rated power
Dimensions (W × H × D)	430 × 660 × 305 mm				
Weight	42 kg				
Topology	Non-isolated				
Self-consumption	< 30 W				
Operating temperature range	-25 ~ +60°C				
Relative humidity	0 - 100%				
Ingress protection	IP66				
Noise emission (typical)	< 65 dB(A)				
Cooling concept	Intelligent fan-cooling				
Max. operation altitude	4000 m				
Grid connection standard	EN 50549-1/-10, VDE 4105&VDE 0124, NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, SriLanka, EN 50438L, Vietnam, MEA, PEA, CEI 0-21				
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4				
Features					
PV connection	MC4 Quick connection plug				
Battery connection	Screw terminal				
AC connection	Screw terminal				
Display	7.0" LCD display & Bluetooth + APP				
Communication interface	Standard: WIFI+LAN+Bluetooth, CAN-BMS, CAN-Parallel×2, RS485-Meter, RS485, DRM, DI, DO×4; Optional: 2G/3G/4G				



3.6-6K

Residential AC Coupled Low Voltage Single Phase Inverters

S6-EA1P(3.6-6)K-L

- AI intelligently manages charging and discharging based on TOU (Time-of-Use) tariffs
- Supports general setting options for lithium batteries, suitable for non-communicating batteries
- Real-time battery monitoring, remote upgrade, and battery healing function to prolong battery life
- Facilitates low-power standby mode to minimize overall system power usage
- Supports peak shaving control

DATASHEET

Models	3.6K	4.6K	5K	6K
Battery				
Battery type	Li-ion			
Battery voltage range	40 - 60 V			
Max. charge / discharge current	75 A	96 A	105 A	125 A
Communication	CAN			
SolisStorage Battery				
Compatible battery module	SBAT-R(5-16)kWh-L-WM-OD; SBAT-R(5-16)kWh-L-WM-ID; SBAT-R(5-10)kWh-L-WM-ID-SE; SBAT-R(5-40)kWh-L-ST-OD			
Number of modules per controller	1 - 8 pcs			
Battery module voltage range	44.8 - 57.6 V			
Input AC (Grid side)				
Input voltage range	187 - 253 V			
Max. input current	16.4 A / 15.7 A	21 A / 20 A	22.8 A / 21.8 A	27.3 A / 26.1 A
Frequency range	45 - 55 Hz / 55 - 65 Hz			
Output AC (Grid side)				
Rated output power	3.6 kW	4.6 kW	5 kW	6 kW
Max. apparent output power	3.6 kVA	4.6 kVA	5 kVA	6 kVA
Operation phase	1/N/PE			
Rated grid voltage	220 V / 230 V			
Grid voltage range	187 - 253 V			
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	16.4 A / 15.7 A	21 A / 20 A	22.8 A / 21.8 A	27.3 A / 26.1 A
Max. output current	16.4 A / 15.7 A	21 A / 20 A	22.8 A / 21.8 A	27.3 A / 26.1 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)			
THDi	< 3%			
Efficiency				
BAT charged / discharged to AC max. efficiency	> 93.5%			
Protection				
Protection class	I			
Over voltage category	DC II / AC III			
Battery reverse protection	Yes			
Battery over and under voltage protection	Yes			
Short circuit protection	Yes			
Output over current protection	Yes			
Temperature protection	Yes			
General Data				
Dimensions (W × H × D)	440 × 465 × 192 mm			
Weight	19.9 kg			
Topology	High frequency isolation			
Operating ambient temperature range	-25 ~ +60°C			
Ingress protection	IP66			
Cooling concept	Natural cooling			
Max. operation altitude	4000 m			
Grid connection standard	C10/11, 50549, G98, G99, VDE4105, AS4777.2, France			
Safety / EMC standard	IEC/EN 62109-1/-2, EN 61000-6-2/-3			
Features				
DC connection	Terminal Block			
AC connection	Quick connection plug			
Display	LED indicator & Bluetooth + APP			
Communication	RS485, CAN, Optional: Wi-Fi, LAN			

SOLARATOR SERIES

Works with a Wide Range of Batteries: Experience Uninterrupted Power, Even in Areas with Grid Instability

4-5K

Residential Off-grid Low Voltage Single Phase Inverters

S6-EO1P(4-5)K-48-EU

- Compatible with generator as backup power supply for off grid system
- Easily expand system capacity using parallel connections and AC coupling

- 10 seconds of 200% overload capability
- Multiple battery options including fast configuration for non-communicating batteries

- Support one click fast charging mode
- Supports dual backup load for intelligent load prioritizing



DATASHEET

Models	4K	5K
Solar Charger		
Max. usable PV input power	5.5 kW	6.5 kW
Max. input voltage		500 V
Rated voltage		360 V
Start-up voltage		90 V
MPPT voltage range		90 - 430 V
Max. input current		16 A / 16 A
Max. short circuit current		40 A
Max. solar charge current		100 A
MPPT number / Max. input strings number		1 / 2
Battery		
Battery type		Li-ion / Lead-acid
Rated battery voltage		40 - 60 V
Max. charge / discharge power		5 kW / 5 kW
Max. charge / discharge current		100 A
Communication		CAN
SolisStorage Battery		
Compatible battery module	SBAT-R(5-16)kWh-L-WM-OD; SBAT-R(5-16)kWh-L-WM-ID; SBAT-R(5-10)kWh-L-WM-ID-SE; SBAT-R(5-40)kWh-L-ST-OD	
Number of modules per controller	1 - 8 pcs	
Battery module voltage range	44.8 - 57.6 V	
Inverter Output		
Rated output power	4 kVA / 4 kW	5 kVA / 5 kW
Operation phase	L/N/PE	
Rated grid voltage	230 V ± 1%	
Rated grid frequency	50 Hz / 60 Hz ± 0.1%	
Surge capacity	8 kVA	10 kVA
Max. output current	20 A	25 A
Output voltage waveform	Pure sine wave	
Transfer time	10 ms typical, 20 ms Max	
THDv (@linear load)	< 3%	
Peak efficiency (PV-AC)	96.6%	
AC Charger (grid port and generator port)		
Max. input power	6 kW	7 kW
Rated input voltage	L/N/PE, AC 230 V	
Selectable voltage range	90 - 280 V	
AC frequency range	50 Hz / 60 Hz	
Max. input current	26 A	30 A
Max. AC charge current	60 A	80 A
Protection		
Output over voltage protection	Yes	
Output over current protection	Yes	
Short circuit protection	Yes	
Surge protection	Yes	
Temperature protection	Yes	
Integrated AFCI 2.0	Optional	
General Data		
Dimensions (W × H × D)	340 × 495 × 170 mm	
Weight	14.1 kg	
Topology	High frequency non-isolation	
Relative humidity	5% - 95% (Non-condensing)	
Operating ambient temperature range	-10 ~ +60°C	
Storage temperature range	-25 ~ +60°C	
Ingress protection	IP21	
Max. operation altitude	2000 m	
Parallel capability	6 units	
Safety standard	IEC 62109, IEC 61000, 55011	
Features		
DC connection	Terminal connectors	
AC connection	Terminal connectors	
Display	LCD	
Communication	CAN, BMS, Dry-contact, Bluetooth, Optional: Wi-Fi	

Residential Low Voltage Energy Storage Batteries

SBAT-R(5-16)kWh-L-WM-ID
Wall-Mounted | IP20



Recommended Combinations

Roof Area	150 m ²	125 m ²	100 m ²	75 m ²	60 m ²	50 m ²	30 m ²
PV System Size	30 kWp	25 kWp	20 kWp	15 kWp	12 kWp	10 kWp	6 kWp
Inverter Capacity	20 kW	20 kW	15 kW	12 kW	10 kW	8 kW	5 kW
Battery Capacity	40 kWh	40 kWh	30 kWh	20 kWh	20 kWh	16 kWh	10 kWh

DATASHEET

Models	5kWh	10kWh	16kWh
Performance Parameters			
Battery type	LiFePO ₄		
Nominal capacity	5.1 kWh	10.2 kWh	16 kWh
Usable capacity	4.6 kWh	9.2 kWh	16 kWh
Operating voltage	44.8 - 57.6 V		
Rated cell capacity	100 Ah	100 Ah	314 Ah
Recommended charge/discharge rate	0.5C		
Recommended charge/discharge current	50 A	100 A	157 A
Maximum sustainable charging current	50 A	100 A	157 A
Maximum sustainable discharge current	100 A	200 A	157 A
Recommended depth of discharge (DOD)	≥ 90%		100%
Charging temperature range	0 ~ 55°C (with heating function, >45°C, derating)		
Discharging temperature range	-20 ~ 55°C (>45°C, derating)		
Communication interface	CAN/RS485/RS232		
Cycle life	>6000 Cycles (@25°C, 0.5C/0.5C, 70% EOL@90% DOD) / 10 years		
Expansion capability	Up to 8 units in parallel		
Standard Parameters			
Cooling method	Natural cooling		
Certifications & safety standards	IEC 62619, IEC 63056, ISO13849, UN 38.3, IEC 61000-6-1/3		
Compatible inverters	S6-EH1P(3-6)K-L-EU/S5-EH1P(3-6)K-L (Smart)/S6-EH1P(3-10)K-L-PLUS/S6-EH1P(9.9-18)K03-NV-YD-L/ S6-EH2P(5-8)K02-SV-YD-L/S6-EH2P(9.6-16)K03-SV-YD-L-US/S6-EH3P(8-18)K02-NV-YD-L/S6-EH3P(7-9)K02-LV-YD-L/ S5-EA1P3K-L/S6-EA1P(3.6-6)K-L/S6-EO1P(4-6)K-48/S6-EO1P(4-5)K-48-EU		
Dimensions (W × H × D)	470 × 650 × 160 mm	470 × 1050 × 160 mm	470 × 960 × 160 mm
Weight	< 50 kg	< 100 kg	< 135 kg
Ingress protection	IP20		
Installation method	Floor-mounted / Wall-mounted (default)		
Recommended operating temperature	10 ~ 45°C		
Maximum operating altitude	≤ 4000 m		
Operating ambient humidity	5 ~ 95% RH		

Residential Low Voltage Energy Storage Batteries

SBAT-R(5-16)kWh-L-WM-OD
Wall-Mounted | IP66



Recommended Combinations

Roof Area	150 m ²	125 m ²	100 m ²	75 m ²	60 m ²	50 m ²	30 m ²
PV System Size	30 kWp	25 kWp	20 kWp	15 kWp	12 kWp	10 kWp	6 kWp
Inverter Capacity	20 kW	20 kW	15 kW	12 kW	10 kW	8 kW	5 kW
Battery Capacity	40 kWh	40 kWh	30 kWh	20 kWh	20 kWh	16 kWh	10 kWh

DATASHEET

Models	5kWh	10kWh	16kWh
Performance Parameters			
Battery type	LiFePO ₄		
Nominal capacity	5.1 kWh	10.2 kWh	16 kWh
Usable capacity	5.1 kWh	10.2 kWh	16 kWh
Operating voltage	44.8 - 57.6 V		
Rated cell capacity	100 Ah	100 Ah	314 Ah
Recommended charge/discharge rate	0.5C		
Recommended charge/discharge current	50 A	100 A	157 A
Maximum sustainable charging current	50 A	100 A	157 A
Maximum sustainable discharge current	100 A	200 A	157 A
Recommended depth of discharge (DOD)	100%		
Charging temperature range	-20 ~ 55°C (with heating function, >45°C, derating)		
Discharging temperature range	-20 ~ 55°C (>45°C, derating)		
Communication interface	CAN/RS485/RS232		
Cycle life	8000 Cycles (@25°C, 0.2C/0.2C, @90% DOD) / 10 years		
Expansion capability	Up to 8 units in parallel		
Standard Parameters			
Cooling method	Natural cooling		
Certifications & safety standards	IEC 62619, IEC 63056, ISO13849, VDE 2510-50, UN 38.3, IEC 61000-6-1/3		
Compatible inverters	S6-EH1P(3-6)K-L-EU/S5-EH1P(3-6)K-L (Smart)/S6-EH1P(3-10)K-L-PLUS/S6-EH1P(9.9-18)K03-NV-YD-L/ S6-EH2P(5-8)K02-SV-YD-L/S6-EH2P(9.6-16)K03-SV-YD-L-US/S6-EH3P(8-18)K02-NV-YD-L/S6-EH3P(7-9)K02-LV-YD-L/ S5-EA1P3K-L/S6-EA1P(3.6-6)K-L/S6-EO1P(4-6)K-48/S6-EO1P(4-5)K-48-EU		
Dimensions (W × H × D)	470 × 650 × 160 mm	470 × 1050 × 160 mm	470 × 960 × 160 mm
Weight	< 50 kg	< 100 kg	< 135 kg
Ingress protection	IP65		
Installation method	Floor-mounted / Wall-mounted (default)		
Recommended operating temperature	10 ~ 45°C		
Maximum operating altitude	≤ 4000 m		
Operating ambient humidity	5 ~ 95% RH		

Residential Low Voltage Energy Storage Batteries

SBAT-R(5-40)kWh-L-ST-OD
Stacked | IP66



Recommended Combinations

Roof Area	150 m ²	125 m ²	100 m ²	75 m ²	60 m ²	50 m ²	30 m ²
PV System Size	30 kWp	25 kWp	20 kWp	15 kWp	12 kWp	10 kWp	6 kWp
Inverter Capacity	20 kW	20 kW	15 kW	12 kW	10 kW	8 kW	5 kW
Battery Capacity	40 kWh	40 kWh	30 kWh	20 kWh	20 kWh	16 kWh	10 kWh

DATASHEET

Models	5kWh	10kWh	15kWh	20kWh	25kWh	30kWh	35kWh	40kWh
Performance Parameters								
Number of battery modules	1	2	3	4	5	6	7	8
Battery type	LiFePO ₄							
Nominal capacity	5.1 kWh	10.2 kWh	15.3 kWh	20.4 kWh	25.5 kWh	30.6 kWh	35.7 kWh	40.8 kWh
Usable capacity	5.1 kWh	10.2 kWh	15.3 kWh	20.4 kWh	25.5 kWh	30.6 kWh	35.7 kWh	40.8 kWh
Operating voltage	44.8 - 57.6 V							
Rated cell capacity	100 Ah	200 Ah	300 Ah	400 Ah	500 Ah	600 Ah	700 Ah	800 Ah
Recommended charge/discharge rate	0.5C							
Recommended charge/discharge current	50 A	100 A	150 A	200 A	250 A	300 A	320 A	320 A
Maximum sustainable charging current	50 A	100 A	150 A	200 A	250 A	300 A	320 A	320 A
Maximum sustainable discharge current	100 A	200 A	200 A	200 A	200 A	200 A	200 A	200 A
Recommended depth of discharge (DOD)	100%							
Charging temperature range	0 ~ 55°C (with heating function, >45°C, derating)							
Discharging temperature range	-20 ~ 55°C (>45°C, derating)							
Communication interface	CAN/RS485							
Cycle life	8000 Cycles (@25°C, 0.2C/0.2C, @90% DOD) / 10 years							
Expansion capability	Up to 4 units in parallel							
Standard Parameters								
Cooling method	Natural cooling							
Certifications & safety standards	IEC 62619, IEC 63056, ISO13849, VDE 2510-50, UN 38.3, IEC 61000-6-1/3							
Compatible inverters	S6-EH1P(3-6)K-L-EU/S5-EH1P(3-6)K-L (Smart)/S6-EH1P(3-10)K-L-PLUS/S6-EH1P(9.9-18)K03-NV-YD-L/ S6-EH2P(5-8)K02-SV-YD-L/S6-EH2P(9.6-16)K03-SV-YD-L-US/S6-EH3P(8-18)K02-NV-YD-L/S6-EH3P(7-9)K02-LV-YD-L/ S5-EA1P3K-L/S6-EA1P(3.6-6)K-L/S6-EO1P(4-6)K-48/S6-EO1P(4-5)K-48-EU							
Dimensions (W × H × D)	800 × 480 × 285 mm	800 × 670 × 285 mm	800 × 860 × 285 mm	800 × 1050 × 285 mm	800 × 1240 × 285 mm	800 × 1430 × 285 mm	800 × 1620 × 285 mm	800 × 1810 × 285 mm
Weight	70 kg	120 kg	170 kg	220 kg	270 kg	320 kg	370 kg	420 kg
Ingress protection	IP66							
Installation method	Floor-mounted							
Recommended operating temperature	10 ~ 45°C							
Maximum operating altitude	≤ 4000 m							
Operating ambient humidity	5 ~ 95% RH							
Control Box Parameters								
Operating voltage	25 - 60 V							
Recommended charge/discharge current	200 A							
Dimensions (W × H × D)	TBD							
Weight	TBD							
Communication interface	CAN/RS485							



3-12K

Residential High Voltage Three Phase Hybrid Inverters

S6-EH3P(3-10)K-H
S6-EH3P12K-H-EU(21A)

Unique Advantages

- ★ Supports up to 4 MPPTs, suitable for multi-orientation and occlusion, to improve power generation

Leading Advantages

- Supports PV input up to 160% of the inverter's rated DC power, maximising solar utilisation
- Supports up to 21A PV input current, compatible with the latest high-power PV modules
- 160% overload for 60s in off-grid mode, ensuring stable startup of motors, water pumps and air conditioner
- Seamless on/off-grid switching in under 10ms, guaranteeing uninterrupted power supply
- Support three-phase unbalanced output, each phase supports output max. 50% rated inverter power
- Supports existing PV grid-tie power connection for export control and off-grid use
- Support grid side generator access, adapting to scenarios with insufficient power supply
- Support max 6 pcs in parallel, expanding system capacity
- Customizable battery backup level for uninterrupted power
- PV only off grid mode, to reduce the initial investment cost
- AI-Powered & VPP-Ready - maximise savings, unlock additional income
- Ingress protection IP66, adapting to harsh ambient conditions

DATASHEET

Models	5K2	6K2	8K2	10K2	3K-EU	4K-EU	5K-EU	6K-EU	8K-EU	10K-EU	12K-EU(21A)
Input DC (PV side)											
Recommended max. PV array size	10 kW	12 kW	16 kW	20 kW	6 kW	8 kW	10 kW	12 kW	16 kW	20 kW	24 kW
Max. usable PV input power	8 kW	9.6 kW	12.8 kW	16 kW	4.8 kW	6.4 kW	8 kW	9.6 kW	12.8 kW	16 kW	19.2 kW
Max. input voltage	1000 V										
Rated voltage	600 V										
Start-up voltage	160 V										
MPPT voltage range	200 - 850 V										
Max. input current	16 A / 16 A			16 A / 16 A			16 A / 16 A / 16 A			4 × 16 A	
Max. short circuit current	24 A / 24 A			24 A / 24 A			24 A / 24 A / 24 A			4 × 24 A	
MPPT number / Max. input strings number	2 / 2			2 / 2			3 / 3			4 / 4	
Battery											
Battery type	Li-ion										
Battery voltage range	120 - 600 V ^①										
Max. charge / discharge power	5 kW	6 kW	8 kW	10 kW	3 kW	4 kW	5 kW	6 kW	8 kW	10 kW	12 kW
Max. charge / discharge current	25 A		50 A		25 A		50 A		50 A		
Communication	CAN / RS485										
SolisStorage Battery											
Compatible battery module	SBAT-R(15-40)kWh-H-ST-OD										
Number of modules per controller	1 - 8 pcs										
Battery module voltage range	134.4 - 460.8 V										
Output AC (Grid side)											
Rated output power	5 kW	6 kW	8 kW	10 kW	3 kW	4 kW	5 kW	6 kW	8 kW	10 kW	12 kW
Max. apparent output power	5 kVA	6 kVA	8 kVA	10 kVA	3 kVA	4 kVA	5 kVA	6 kVA	8 kVA	10 kVA	12 kVA
Rated grid voltage	3/N/PE, 380 V / 400 V										
Rated grid frequency	50 Hz / 60 Hz										
Rated grid output current	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A	4.6 A / 4.3 A	6.1 A / 5.8 A	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A	18.2 A / 17.3 A
Max. output current	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A	4.6 A / 4.3 A	6.1 A / 5.8 A	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A	18.2 A / 17.3 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)										
THDi	< 3%										
Input AC (Grid side)											
Input voltage range	304 - 437 V / 320 - 460 V										
Max. input current	11.4 A / 10.9 A	13.6 A / 13.0 A	18.2 A / 17.4 A	22.7 A / 21.7 A	6.8 A / 6.5 A	9.1 A / 8.7 A	11.4 A / 10.9 A	13.6 A / 13.0 A	18.2 A / 17.4 A	22.7 A / 21.7 A	27.3 A / 26.0 A
Rated grid frequency	50 Hz / 60 Hz										
Frequency range	45 - 55 Hz / 55 - 65 Hz										
Output AC (Back-up)											
Rated output power	5 kW	6 kW	8 kW	10 kW	3 kW	4 kW	5 kW	6 kW	8 kW	10 kW	12 kW
Max. apparent output power	1.6 times of rated power, 60 s										
Back-up switch time	< 10 ms										
Rated output voltage	3/N/PE, 380 V / 400 V										
Rated frequency	50 Hz / 60 Hz										
Rated output current	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A	4.6 A / 4.3 A	6.1 A / 5.8 A	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A	18.2 A / 17.3 A
THDv (@linear load)	< 2%										
Efficiency											
Max. efficiency	96.50%	97.00%	97.50%	97.90%	95.50%	96.00%	96.50%	97.00%	97.50%	97.90%	97.85%
EU efficiency	96.77%	97.10%	97.41%	97.51%	95.51%	96.03%	96.77%	97.10%	97.41%	97.51%	97.51%
BAT charged by PV max. efficiency	98.37%	98.45%	98.22%	98.31%	95.96%	96.57%	98.37%	98.45%	98.22%	98.31%	98.31%
BAT charged / discharged to AC max. efficiency	97.32%	97.34%	97.50%	97.50%	97.04%	97.29%	97.32%	97.34%	97.50%	97.50%	97.50%
Protection											
Anti-islanding protection	Yes										
Output over current protection	Yes										
Short circuit protection	Yes										
Surge protection	/										
Integrated DC switch	Yes										
DC reverse-polarity protection	Yes										
Battery reverse protection	Yes										
General Data											
Max. power per phase (grid & back-up)	50% rated power										
Dimensions (W × H × D)	600 × 500 × 210 mm	600 × 500 × 230 mm	600 × 500 × 210 mm				600 × 500 × 230 mm	563 × 412 × 230 mm			
Weight	27.6 kg		30.2 kg		26.4 kg		27.6 kg		30.2 kg		34.5 kg
Topology	Transformerless										
Self-consumption (night)	< 25 W										
Operating ambient temperature range	-25 ~ +60°C										
Relative humidity	0 - 100%										
Ingress protection	IP66										
Noise emission (typical)	< 46.9 dB(A)										
Cooling concept	Natural 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, EK18										
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3										
Features											
PV connection	MC4 connector										
Battery connection	Quick connection plug										
AC connection	Quick connection plug										
Display	LED indicator & Bluetooth + APP										
Communication	CAN, RS485, Optional: Wi-Fi, Cellular, LAN										

① Supports max. battery voltage to 700 V.

SOLARATOR SERIES

Works with a Wide Range of Batteries: Experience Uninterrupted Power, Even in Areas with Grid Instability



8-12K

Residential High Voltage Three Phase Hybrid Inverters

S6-EH3P(8-12)K-LV-ND-H



Smart Energy Management

- AI intelligently manages charging and discharging based on TOU (Time-of-Use) tariffs
- Seamless integration with VPP and EMS platforms for enhanced energy optimization
- Built-in control for SG-ready heat pumps

High Performance

- Supports three-phase unbalanced output, allowing up to 40% of rated inverter power per phase
- 160% PV input capacity to maximize solar energy utilization
- Switching time < 10ms

Flexible & Scalable

- Compatible with mainstream lithium batteries
- Easily expand system capacity using parallel connections and AC coupling

Simple & Fast Configuration

- Bluetooth app support for quick and easy setup

DATASHEET

Models	8K	10K	12K
Input DC (PV side)			
Recommended max. PV array size	16 kW	20 kW	24 kW
Max. usable PV input power	12.8 kW	16 kW	19.2 kW
Max. input voltage		1000 V	
Rated voltage		600 V	
Start-up voltage		160 V	
MPPT voltage range		200 - 850 V	
Max. input current		4 × 16 A	4 × 20 A
Max. short circuit current		4 × 24 A	4 × 30 A
MPPT number / Max. input strings number		4 / 4	
Battery			
Battery type		Li-ion	
Battery voltage range		120 - 800 V	
Max. charge / discharge power	8 kW		12 kW
Max. charge / discharge current		50 A	
Communication		CAN / RS485	
SolisStorage Battery			
Compatible battery module		SBAT-R(15-40)kWh-H-ST-OD	
Number of modules per controller		1 - 8 pcs	
Battery module voltage range		134.4 - 460.8 V	
Output AC (Grid side)			
Rated output power	8 kW	10 kW	12 kW
Max. apparent output power	8 kVA	10 kVA	12 kVA
Rated grid voltage		3/(N)/PE, 133 V / 230 V	
Rated grid frequency		50 Hz / 60 Hz	
Rated grid output current	20.1 A	25.1 A	30.1 A
Max. output current	20.1 A	25.1 A	30.1 A
Power factor		> 0.99 (0.8 leading - 0.8 lagging)	
THDi		< 3%	
Input AC (Grid side)			
Input voltage range		184 - 265 V	
Max. input current	30.1 A	37.7 A	45.2 A
Rated grid frequency		50 Hz / 60 Hz	
Frequency range		45 - 55 Hz / 55 - 65 Hz	
Input Generator			
Max. input power	8 kW	10 kW	12 kW
Max. input current	20.1 A	25.1 A	30.1 A
Rated input frequency		50 Hz / 60 Hz	
Output AC (Back-up)			
Rated output power	8 kW	10 kW	12 kW
Max. apparent output power		1.6 times of rated power, 10 s	
Back-up switch time		< 10 ms	
Rated output voltage		3/(N)/PE, 133 V / 230 V	
Rated frequency		50 Hz / 60 Hz	
Rated output current	20.1 A	25.1 A	30.1 A
THDv (@linear load)		< 2%	
Efficiency			
Max. efficiency		96.70%	
EU efficiency		96.39%	
BAT charged by PV max. efficiency		96.23%	
BAT charged / discharged to AC max. efficiency		96.43%	
Protection			
Anti-islanding protection		Yes	
Output over current protection		Yes	
Short circuit protection		Yes	
Integrated AFCI 2.0		Optional	
Integrated DC switch		Yes	
DC reverse-polarity protection		Yes	
PV over voltage protection		Yes	
Battery reverse protection		Yes	
General Data			
Max. allowable phase imbalance (grid & back-up)		100%	
Max. power per phase (grid & back-up)		40% rated power	
Dimensions (W × H × D)		563 × 546 × 235 mm	
Weight		32.6 kg	
Topology		Transformerless	
Self-consumption (night)		< 25 W	
Operating ambient temperature range		-25 ~ +60°C	
Relative humidity		0 - 100%	
Ingress protection		IP66	
Noise emission (typical)		< 65 dB(A)	
Cooling concept		Intelligent fan-cooling	
Max. operation altitude		4000 m	
Grid connection standard		EN 50549-1/-10, VDE4105, REN342	
Safety / EMC standard		IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4	
Features			
PV connection		MC4 connector	
Battery connection		OT terminal	
AC connection		OT terminal	
Display		LED indicator & Bluetooth + APP	
Communication		CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN	

SOLARATOR SERIES

Works with a Wide Range of Batteries: Experience Uninterrupted Power, Even in Areas with Grid Instability



12-20K

Residential High Voltage Three Phase Hybrid Inverters

S6-EH3P(12-20)K-H

Smart Energy Management

- AI intelligently manages charging and discharging based on TOU (Time-of-Use) tariffs
- Seamless integration with VPP and EMS platforms for enhanced energy optimization
- Built-in control for SG-ready heat pumps

High Performance

- Supports three-phase unbalanced output, allowing up to 40% of rated inverter power per phase
- 160% PV input capacity to maximize solar energy utilization
- Switching time < 10ms

Flexible & Scalable

- Compatible with mainstream lithium batteries
- Easily expand system capacity using parallel connections and AC coupling

Simple & Fast Configuration

- 7-inch large screen uses U.S.-made ZEITLER industrial-grade components
- Bluetooth app support for quick and easy setup



DATASHEET

Models	12K	15K	20K
Input DC (PV side)			
Recommended max. PV array size	24 kW	30 kW	40 kW
Max. usable PV input power	19.2 kW	24 kW	32 kW
Max. input voltage		1000 V	
Rated voltage		600 V	
Start-up voltage		160 V	
MPPT voltage range		200 - 850 V	
Max. input current		4 × 20 A	
Max. short circuit current		4 × 30 A	
MPPT number / Max. input strings number		4 / 4	
Battery			
Battery type		Li-ion	
Battery voltage range		120 - 800 V	
Max. charge / discharge power	12 kW	15 kW	20 kW
Max. charge / discharge current		50 A	
Communication		CAN / RS485	
SolisStorage Battery			
Compatible battery module		SBAT-R(15-40)kWh-H-ST-OD	
Number of modules per controller		1 - 8 pcs	
Battery module voltage range		134.4 - 460.8 V	
Output AC (Grid side)			
Rated output power	12 kW	15 kW	20 kW
Max. apparent output power	12 kVA	15 kVA	20 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	18.2 A / 17.3 A	22.8 A / 21.7 A	30.4 A / 28.9 A
Max. output current	18.2 A / 17.3 A	22.8 A / 21.7 A	30.4 A / 28.9 A
Power factor		> 0.99 (0.8 leading - 0.8 lagging)	
THDi		< 3%	
Input AC (Grid side)			
Input voltage range		304 - 437 V / 320 - 460 V	
Max. input current	27.3 A / 26.0 A	34.2 A / 32.5 A	45.6 A / 43.3 A
Rated grid frequency		50 Hz / 60 Hz	
Frequency range		45 - 55 Hz / 55 - 65 Hz	
Input Generator			
Max. input power	12 kW	15 kW	20 kW
Max. input current	18.2 A / 17.3 A	22.8 A / 21.7 A	30.4 A / 28.9 A
Rated input frequency		50 Hz / 60 Hz	
Output AC (Back-up)			
Rated output power	12 kW	15 kW	20 kW
Max. apparent output power		1.6 time of rated power, 10 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	18.2 A / 17.3 A	22.8 A / 21.7 A	30.4 A / 28.9 A
THDv (@linear load)		< 3%	
Efficiency			
Max. efficiency		97.7%	
EU efficiency		97.5%	
BAT charged by PV max. efficiency		98.5%	
BAT charged / discharged to AC max. efficiency		97.2%	
Protection			
Anti-islanding protection		Yes	
Output over current protection		Yes	
Short circuit protection		Yes	
Integrated AFCI 2.0		Optional	
Integrated DC switch		Yes	
DC reverse-polarity protection		Yes	
PV over voltage protection		Yes	
Battery reverse protection		Yes	
General Data			
Max. allowable phase imbalance (grid & back-up)		100%	
Max. power per phase (grid & back-up)		40% rated power	
Dimensions (W × H × D)		563 × 546 × 250 mm	
Weight		35.2 kg	
Topology		Transformerless	
Self-consumption (night)		< 25 W	
Operating ambient temperature range		-25 ~ +60°C	
Relative humidity		0 - 100%	
Ingress protection		IP66	
Noise emission (typical)		< 65 dB(A)	
Cooling concept		Intelligent fan-cooling	
Max. operation altitude		4000 m	
Grid connection standard		EN 50549-1/-10, VDE4105, CEI 0-21, CEI 0-16, NC-RFG TypeB, NRS 097-2-1, LTU-1, G99, PEA	
Safety / EMC standard		IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4	
Features			
PV connection		MC4 connector	
Battery connection		OT terminal	
AC connection		OT terminal	
Display		7.0" LCD display & Bluetooth + APP	
Communication		CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN	

SOLARATOR SERIES

Works with a Wide Range of Batteries: Experience Uninterrupted Power, Even in Areas with Grid Instability

12-20K

Residential High Voltage Three Phase Hybrid Inverters

S6-EH3P(12-20)K-ND-H



Smart Energy Management

- AI intelligently manages charging and discharging based on TOU (Time-of-Use) tariffs
- Seamless integration with VPP and EMS platforms for enhanced energy optimization
- Built-in control for SG-ready heat pumps

Flexible & Scalable

- Compatible with mainstream lithium batteries
- Easily expand system capacity using parallel connections and AC coupling

High Performance

- Supports three-phase unbalanced output, allowing up to 40% of rated inverter power per phase
- 160% PV input capacity to maximize solar energy utilization
- Switching time < 10ms

Simple & Fast Configuration

- Bluetooth app support for quick and easy setup

DATASHEET

Models	12K	15K	20K
Input DC (PV side)			
Recommended max. PV array size	24 kW	30 kW	40 kW
Max. usable PV input power	19.2 kW	24 kW	32 kW
Max. input voltage		1000 V	
Rated voltage		600 V	
Start-up voltage		160 V	
MPPT voltage range		200 - 850 V	
Max. input current		4 × 20 A	
Max. short circuit current		4 × 30 A	
MPPT number / Max. input strings number		4 / 4	
Battery			
Battery type		Li-ion	
Battery voltage range		120 - 800 V	
Max. charge / discharge power	12 kW	15 kW	20 kW
Max. charge / discharge current		50 A	
Communication		CAN / RS485	
SolisStorage Battery			
Compatible battery module		SBAT-R(15-40)kWh-H-ST-OD	
Number of modules per controller		1 - 8 pcs	
Battery module voltage range		134.4 - 460.8 V	
Output AC (Grid side)			
Rated output power	12 kW	15 kW	20 kW
Max. apparent output power	12 kVA	15 kVA	20 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	18.2 A / 17.3 A	22.8 A / 21.7 A	30.4 A / 28.9 A
Max. output current	18.2 A / 17.3 A	22.8 A / 21.7 A	30.4 A / 28.9 A
Power factor		> 0.99 (0.8 leading - 0.8 lagging)	
THDi		< 3%	
Input AC (Grid side)			
Input voltage range		304 - 437 V / 320 - 460 V	
Max. input current	27.3 A / 26.0 A	34.2 A / 32.5 A	45.6 A / 43.3 A
Rated grid frequency		50 Hz / 60 Hz	
Frequency range		45 - 55 Hz / 55 - 65 Hz	
Input Generator			
Max. input power	12 kW	15 kW	20 kW
Max. input current	18.2 A / 17.3 A	22.8 A / 21.7 A	30.4 A / 28.9 A
Rated input frequency		50 Hz / 60 Hz	
Output AC (Back-up)			
Rated output power	12 kW	15 kW	20 kW
Max. apparent output power		1.6 time of rated power, 10 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	18.2 A / 17.3 A	22.8 A / 21.7 A	30.4 A / 28.9 A
THDv (@linear load)		< 3%	
Efficiency			
Max. efficiency		97.7%	
EU efficiency		97.5%	
BAT charged by PV max. efficiency		98.5%	
BAT charged / discharged to AC max. efficiency		97.2%	
Protection			
Anti-islanding protection		Yes	
Output over current protection		Yes	
Short circuit protection		Yes	
Integrated AFCI 2.0		Optional	
Integrated DC switch		Yes	
DC reverse-polarity protection		Yes	
PV over voltage protection		Yes	
Battery reverse protection		Yes	
General Data			
Max. allowable phase imbalance (grid & back-up)		100%	
Max. power per phase (grid & back-up)		40% rated power	
Dimensions (W × H × D)		563 × 546 × 235 mm	
Weight		32.6 kg	
Topology		Transformerless	
Self-consumption (night)		< 25 W	
Operating ambient temperature range		-25 ~ +60°C	
Relative humidity		0 - 100%	
Ingress protection		IP66	
Noise emission (typical)		< 65 dB(A)	
Cooling concept		Intelligent fan-cooling	
Max. operation altitude		4000 m	
Grid connection standard		EN 50549-1/-10, VDE4105, CEI 0-21, CEI 0-16, NC-RFG TypeB, NRS 097-2-1, LTU-1, G99, PEA	
Safety / EMC standard		IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4	
Features			
PV connection		MC4 connector	
Battery connection		OT terminal	
AC connection		OT terminal	
Display		LED indicator & Bluetooth + APP	
Communication		CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN	



5-10K

Residential AC Coupled High Voltage Three Phase Inverters

S6-EA3P(5-10)KAA-NV-YD-H-PRO

3 Unique Advantages

- ★ Supports connection to single-phase grid (Netherlands only) and three-phase unbalanced output, each phase supports output max. 50% rated inverter power
- ★ For households equipped with Solis grid-tied inverters: Works seamlessly with Solis grid-tied inverters to form a zero-export system
- ★ For households with third-party grid-tied inverters: Supports AC coupling for PV, enabling flexible system expansion and retrofitting

6 Leading Advantages

- Supports battery charge/discharge current up to 50A. Compatible with 50Ah battery cells to reduce initial investment
- Supports SG-Ready heat pump connectivity for smarter home energy applications
- Compact, space-saving design adapts flexibly to narrow installation environments such as lofts and corners
- AI integration and VPP readiness enable dynamic tariff optimization, minimizing electricity expenses and unlocking additional revenue
- Ingress protection IP66, adapting to harsh ambient conditions
- 4.3 inch touchable LCD screen. More convenient and efficient screen operations

DATASHEET

Models	5K	6K	8K	10K
Battery				
Battery type	Li-ion			
Battery voltage range	120 - 700 V			
Charge / discharge current	0 - 25 A	0 - 30 A	0 - 40 A	0 - 50 A
Battery Isc	80 A			
Communication	CAN / RS485			
SolisStorage Battery				
Compatible battery module	SBAT-R(15-40)kWh-H-ST-OD			
Number of modules per controller	1 - 8 pcs			
Battery module voltage range	134.4 - 460.8 V			
Output AC (Grid side)				
Rated output power	5 kW	6 kW	8 kW	10 kW
Max. apparent output power	5 kVA	6 kVA	8 kVA	10 kVA
Rated grid voltage	3/N/PE, 380 V / 400 V			
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	7.6 A / 7.3 A	9.1 A / 8.7 A	12.2 A / 11.6 A	15.2 A / 14.5 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)			
THDi	< 3%			
Input AC (Grid side)				
Max. input power	5 kW	6 kW	8 kW	10 kW
Rated input current	7.6 A / 7.3 A	9.1 A / 8.7 A	12.2 A / 11.6 A	15.2 A / 14.5 A
Rated input voltage	3/N/PE, 380 V / 400 V			
Efficiency				
BAT charged / discharged to AC max. efficiency	97.32%	97.34%		97.50%
Protection				
Anti-islanding protection	Yes			
Output over current protection	Yes			
Short circuit protection	Yes			
Battery reverse protection	Yes			
Protection class / Over voltage category	I / II (Battery), III (Main)			
Surge protection	AC Type II (Optional)			
General Data				
Max. power per phase	50% rated power			
Dimensions (W × H × D)	448 × 413 × 214 mm			
Weight	20 kg			
Topology	Non-isolated			
Self-consumption (night)	< 25 W			
Operating ambient temperature range	-25 ~ +60°C (> 45°C derating)			
Relative humidity	0 - 100%			
Ingress protection	IP66			
Noise emission (typical)	< 47 dB(A)			
Cooling concept	Natural cooling			
Max. operation altitude	4000 m			
Grid connection standard	EN 50549-10 & EN 50549-1, G98, G99, G99 NI, VDE-AR-N 4105/VDE V 0124, C10/11			
Safety standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3			
Features				
DC connection	Quick connection plug			
AC connection	Quick connection plug			
Display	4.3" touchable LCD display & Bluetooth + APP			
Communication	CAN, RS485-19200, Optional: Wi-Fi, Cellular, LAN			

5-10K

Residential AC Coupled High Voltage Three Phase Inverters

S6-EA3P(5-10)KAA-NV-ND-H-PRO



3 Unique Advantages

- ★ Supports three-phase unbalanced output, each phase supports output max. 50% rated inverter power
- ★ For households equipped with Solis grid-tied inverters: Works seamlessly with Solis grid-tied inverters to form a zero-export system
- ★ For households with third-party grid-tied inverters: Supports AC coupling for PV, enabling flexible system expansion and retrofiting

5 Leading Advantages

- Supports battery charge/discharge current up to 50A. Compatible with 50Ah battery cells to reduce initial investment
- Supports SG-Ready heat pump connectivity for smarter home energy applications
- Compact, space-saving design adapts flexibly to narrow installation environments such as lofts and corners
- AI integration and VPP readiness enable dynamic tariff optimization, minimizing electricity expenses and unlocking additional revenue
- Ingress protection IP66, adapting to harsh ambient conditions

DATASHEET

Models	5K	6K	8K	10K
Battery				
Battery type	Li-ion			
Battery voltage range	120 - 700 V			
Charge / discharge current	0 - 25 A	0 - 30 A	0 - 40 A	0 - 50 A
Battery Isc	80 A			
Communication	CAN / RS485			
SolisStorage Battery				
Compatible battery module	SBAT-R(15-40)kWh-H-ST-OD			
Number of modules per controller	1 - 8 pcs			
Battery module voltage range	134.4 - 460.8 V			
Output AC (Grid side)				
Rated output power	5 kW	6 kW	8 kW	10 kW
Max. apparent output power	5 kVA	6 kVA	8 kVA	10 kVA
Rated grid voltage	3/N/PE, 380 V / 400 V			
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	7.6 A / 7.3 A	9.1 A / 8.7 A	12.2 A / 11.6 A	15.2 A / 14.5 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)			
THDi	< 3%			
Input AC (Grid side)				
Max. input power	5 kW	6 kW	8 kW	10 kW
Rated input current	7.6 A / 7.3 A	9.1 A / 8.7 A	12.2 A / 11.6 A	15.2 A / 14.5 A
Rated input voltage	3/N/PE, 380 V / 400 V			
Efficiency				
BAT charged / discharged to AC max. efficiency	97.32%	97.34%	97.50%	
Protection				
Anti-islanding protection	Yes			
Output over current protection	Yes			
Short circuit protection	Yes			
Battery reverse protection	Yes			
Protection class / Over voltage category	I / II (Battery), III (Main)			
Surge protection	AC Type II (Optional)			
General Data				
Max. power per phase	50% rated power			
Dimensions (W × H × D)	448 × 413 × 214 mm			
Weight	20 kg			
Topology	Non-isolated			
Self-consumption (night)	< 25 W			
Operating ambient temperature range	-25 ~ +60°C (> 45°C derating)			
Relative humidity	0 - 100%			
Ingress protection	IP66			
Noise emission (typical)	< 47 dB(A)			
Cooling concept	Natural cooling			
Max. operation altitude	4000 m			
Grid connection standard	EN 50549-10 & EN 50549-1, VDE-AR-N 4105/VDE V 0124, C10/11, EN 50549F1			
Safety standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3			
Features				
DC connection	Quick connection plug			
AC connection	Quick connection plug			
Display	LED indicator & Bluetooth + APP			
Communication	CAN, RS485-19200, Optional: Wi-Fi, Cellular, LAN			

**7K**

Residential AC Coupled High Voltage Three Phase Inverters

S6-EA3P7KAA-LV-ND-H-PRO

3 Unique Advantages

- ★ Supports three-phase unbalanced output, each phase supports output max. 50% rated inverter power
- ★ For households equipped with Solis grid-tied inverters: Works seamlessly with Solis grid-tied inverters to form a zero-export system
- ★ For households with third-party grid-tied inverters: Supports AC coupling for PV, enabling flexible system expansion and retrofiting

5 Leading Advantages

- Supports battery charge/discharge current up to 50A. Compatible with 50Ah battery cells to reduce initial investment
- Supports SG-Ready heat pump connectivity for smarter home energy applications
- Compact, space-saving design adapts flexibly to narrow installation environments such as lofts and corners
- AI integration and VPP readiness enable dynamic tariff optimization, minimizing electricity expenses and unlocking additional revenue
- Ingress protection IP66, adapting to harsh ambient conditions

DATASHEET

Models	7K
Battery	
Battery type	Li-ion
Battery voltage range	120 - 700 V
Charge / discharge current	0 - 35 A
Battery Isc	80 A
Communication	CAN / RS485
SolisStorage Battery	
Compatible battery module	SBAT-R(15-40)kWh-H-ST-OD
Number of modules per controller	1 - 8 pcs
Battery module voltage range	134.4 - 460.8 V
Output AC (Grid side)	
Rated output power	7 kW
Max. apparent output power	7 kVA
Rated grid voltage	3/(N)/PE, 127 V / 220 V, 133 V / 230 V
Rated grid frequency	50 Hz / 60 Hz
Rated grid output current	18.4 A / 17.6 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)
THDi	< 3%
Input AC (Grid side)	
Max. input power	7 kW
Rated input current	18.4 A / 17.6 A
Rated input voltage	3/(N)/PE, 127 V / 220 V, 133 V / 230 V
Efficiency	
BAT charged / discharged to AC max. efficiency	96.1% / 96.5%
Protection	
Anti-islanding protection	Yes
Output over current protection	Yes
Short circuit protection	Yes
Battery reverse protection	Yes
Protection class / Over voltage category	I / II (Battery), III (Main)
Surge protection	AC Type II (Optional)
General Data	
Max. power per phase	50% rated power
Dimensions (W × H × D)	448 × 413 × 214 mm
Weight	20 kg
Topology	Non-isolated
Self-consumption (night)	< 25 W
Operating ambient temperature range	-25 ~ +60°C (> 45°C derating)
Relative humidity	0 - 100%
Ingress protection	IP66
Noise emission (typical)	< 47 dB(A)
Cooling concept	Natural cooling
Max. operation altitude	4000 m
Grid connection standard	EN 50549-10 & EN 50549-1, VDE-AR-N 4105/VDE V 0124, C10/11, EN 50549FI
Safety standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3
Features	
DC connection	Quick connection plug
AC connection	Quick connection plug
Display	LED indicator & Bluetooth + APP
Communication	CAN, RS485-19200, Optional: Wi-Fi, Cellular, LAN

Residential High Voltage Energy Storage Batteries

SBAT-R(15-40)kWh-H-ST-OD
Stacked | IP66



Recommended Combinations

Roof Area	150 m ²	125 m ²	100 m ²	75 m ²	60 m ²	50 m ²	30 m ²
PV System Size	30 kWp	25 kWp	20 kWp	15 kWp	12 kWp	10 kWp	6 kWp
Inverter Capacity	20 kW	20 kW	15 kW	12 kW	10 kW	8 kW	5 kW
Battery Capacity	40 kWh	40 kWh	30 kWh	20 kWh	20 kWh	16 kWh	10 kWh

DATASHEET

Models	15kWh	20kWh	25kWh	30kWh	35kWh	40kWh
Performance Parameters						
Number of battery modules	3	4	5	6	7	8
Battery type	LiFePO ₄					
Nominal capacity	15.3 kWh	20.4 kWh	25.5 kWh	30.6 kWh	35.7 kWh	40.8 kWh
Usable capacity	15.3 kWh	20.4 kWh	25.5 kWh	30.6 kWh	35.7 kWh	40.8 kWh
Operating voltage	134.4 - 172.8 V	179.2 - 230.4 V	224 - 288 V	268.8 - 345.6 V	313.6 - 403.2 V	358.4 - 460.8 V
Rated cell capacity	100 Ah					
Recommended charge/discharge rate	0.5C					
Recommended charge/discharge current	50 A					
Maximum sustainable charging current	50 A					
Maximum sustainable discharge current	50 A					
Recommended depth of discharge (DOD)	100%					
Charging temperature range	0 ~ 55°C (with heating function, >45°C, derating)					
Discharging temperature range	-20 ~ 55°C (>45°C, derating)					
Communication interface	CAN/RS485					
Cycle life	8000 Cycles (@25°C, 0.2C/0.2C, @90% DOD) / 10 years					
Expansion capability	Up to 4 units in parallel					
Standard Parameters						
Cooling method	Natural cooling					
Certifications & safety standards	IEC 62619, IEC 63056, ISO13849, VDE 2510-50, UN 38.3, IEC 61000-6-1/3, EN /IEC 62477-1 TR					
Compatible inverters	S6-EH3P(3-12)K-H/S6-EH3P(12-20)K-H/S6-EH3P(12-20)K-ND-H/S6-EH3P(8-12)K-LV-ND-H/S6-EA3P(5-10)KAA-NV-YD-H-PRO/S6-EA3P(5-10)KAA-NV-ND-H-PRO/S6-EA3P7KAA-LV-ND-H-PRO					
Dimensions (W × H × D)	800 × 860 × 285mm	800 × 1050 × 285mm	800 × 1240 × 285mm	800 × 1430 × 285mm	800 × 1620 × 285mm	800 × 1810 × 285mm
Weight	170 kg	220 kg	270 kg	320 kg	370 kg	420 kg
Ingress protection	IP66					
Installation method	Floor-mounted					
Recommended operating temperature	10 ~ 45°C					
Maximum operating altitude	≤ 4000 m					
Operating ambient humidity	5 ~ 95% RH					
Control Box Parameters						
Operating voltage	80 - 1000 V					
Recommended charge/discharge current	50 A					
Dimensions (W × H × D)	TBD					
Weight	TBD					
Communication interface	CAN/RS485					

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