SINGLE PHASE LOW VOLTAGE AC-COUPLED INVERTERS • 3.6 – 6 KW

Solis S6 Retrofit S6-EA1P(3.6-6)K-L

Solis Single Phase Low Voltage AC-Coupled Inverters (S6-EA1P(3.6-6)K-L) with AI Time-of-Use tariff management, peak shaving control, and 40–60V lithium battery healing technology.

S6-EA1P3.6K-L • S6-EA1P4.6K-L • S6-EA1P5K-L • S6-EA1P6K-L — IP66 Natural Cooling (440 × 465 × 192 mm • 19.9 kg)

3.6 / 4.6 / 5 / 6 kW AC-Coupled

Universal AC-coupled retrofit for any existing PV system • >93.5% battery-to-AC max. efficiency

40–60V Li-ion & Up to 125A Current

Supports communicating (CAN) & non-communicating lithium batteries • 75A / 96A / 105A / 125A

AI Time-of-Use & Peak Shaving

AI intelligently manages charging/discharging based on TOU tariffs, peak shaving & low-power standby

Battery Healing & IP66 Cooling

Real-time battery monitoring, remote upgrade & battery healing function • Fanless natural cooling

The Charge Grid • Solis S6 AC-Coupled Retrofit Battery Inverters

C10/11 • EN 50549 • VDE4105 • IP66 • IEC/EN 62109-1/-2

Solis S6 Retrofit S6-EA1P(3.6-6)K-L

SINGLE PHASE LOW VOLTAGE AC-COUPLED INVERTERS • 3.6 – 6 KW

AI TOU Tariff Management | Peak Shaving Control | Battery Healing Function | IP66 Natural Cooling

S6-EA1P3.6K-L	S6-EA1P4.6K-L	S6-EA1P5K-L	S6-EA1P6K-L
3.6 kW / 3.6 kVA • Max. 75 A	4.6 kW / 4.6 kVA • Max. 96 A	5.0 kW / 5.0 kVA • Max. 105 A	6.0 kW / 6.0 kVA • Max. 125 A

KEY FEATURES — 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
- ?Supports peak shaving control
- ?Facilitates low-power standby mode to minimize overall system power usage

BATTERY

Models	3.6K	4.6K	5K	6K
Battery type	Li-ion			
Battery voltage range	40 - 60 V			
Max. charge / discharge current	75 A	96 A	105 A	125 A
Communication	CAN			

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

Models	3.6K	4.6K	5K	6K
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

Universal AC-Coupled Retrofit: Solis S6-EA1P(3.6-6)K-L + Existing PV + Easyway UNIV5200

Upgrade any existing solar PV installation (compatible with all string or micro-inverter brands) with 40–60V Li-ion storage such as the Easyway UNIV5200. Features high-frequency isolation, Quick Connection AC plug, LED indicator & Bluetooth + App.