



solis

20th
ANNIVERSARY

5-10K

AC-Coupled Inverters

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

Three Phase | High Voltage



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

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

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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			
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			