

INVERTERS

S6-EH1P(3-6)K-L-EU

Hybrid inverter · Single-phase · 3 – 6 kW · 5 models


3 – 6 kW

RATED POWER

Single-phase

PHASE

2

MPPT TRACKERS

>97 %

MAX. EFFICIENCY

Parameter	Unit	S6-EH1P3K-L-EU	S6-EH1P3.6K-L-EU	S6-EH1P4.6K-L-EU	S6-EH1P5K-L-EU	S6-EH1P6K-L-EU
PV input						
Max. PV input power	W	4800	5700	7000	8000	9600
Max. PV input voltage	V	600				
Rated PV input voltage	V	330				
Start-up voltage	V	90				
MPPT voltage range	V	90 – 520				
Max. input current per MPPT	A	16				
Max. short-circuit current per MPPT	A	24				
Number of MPPT trackers		2				
Max. number of PV input strings		2				
AC output						
Rated output power	W	3000	3600	4600	5000	6000
Max. apparent power	VA	3000	3600	4600	5000	6000
Rated AC voltage	V	230				
Rated AC output current	A	13	15.7	20	21.7	26.1
Phase		Single-phase				
Rated AC frequency	Hz	50/60				
Max. AC output current	A	13	15.7	20	21.7	26.1
Power factor		> 0.99 (0.8 leading to 0.8 lagging)				
Total harmonic distortion (THDi)	%	<2				
AC input voltage range (grid side)	V	187 – 253				
Max. AC input current (grid side)	A	20	24.6	31.4	32	40
AC input frequency range (grid side)	Hz	45-55 / 55-65				
Backup output power	W	3000	3600	4600	5000	6000

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Max. apparent power, off-grid side (60 s)	VA	4200	5000	6400	7000	8000
Grid / off-grid switchover time	ms	<10				
Rated output voltage, off-grid side	V	220 / 230				
Rated frequency, off-grid side	Hz	50 / 60				
Max. output current, off-grid side	A	19.1	22.7	29.1	31.8	36.4
Total voltage harmonic distortion (THDv), off-grid side	%	<2				
Battery						
Battery type		Lithium battery / lead-acid battery				
Battery voltage range	V	42 – 58				
Battery capacity range	Ah	50 – 2000				
Max. charge power	W	3000	3600	4600	5000	6000
Max. discharge power	W	3000	3600	4600	5000	6000
Max. charge current	A	62.5	75	100	105	125
Max. discharge current	A	62.5	75	100	105	125
Battery communication		CAN				
Efficiency						
Max. efficiency	%	>97		>97.5		
European efficiency	%	>96.2				
Max. PV charging efficiency	%	>94.9				
Max. battery charge / discharge efficiency	%	>94.33 / 93.51				
Protection						
Protection functions		Ground fault detection; DC arc fault protection (optional); DC reverse polarity protection				
Protection class / overvoltage category		Class I / Category II				
General data						
Dimensions (W x H x D)	mm	405 × 480 × 205				
Weight	kg	20.3		22.4		
Topology		High-frequency isolation (battery side)				
Operating temperature range	°C	–25 – 60				
Ingress protection (IP rating)		IP66				
Cooling		Natural convection				
Max. operating altitude	m	4000				
DC connector		MC4				
AC connector		Quick connector				
Communication						
Display		LED indicators, Bluetooth + APP				
Communication interfaces		RS485; CAN; Wi-Fi (optional); GPRS (optional); LAN (optional)				

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Certifications						
Certifications and standards		IEC/EN 62109-1/-2; EN 61000-6-1/-2/-3/-4				
Grid codes		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				

Specifications are subject to change without notice. Values are typical at 25 °C unless stated.
XUSION is a brand of Hunan New Lithium Aviation Technology Co., Ltd.

E-mail lidreamtec@163.com
WhatsApp +86 133 5280 0772