

INVERTERS

S6-EH1P(3.8-11.4)K-H-US

Hybrid inverter · Split-phase · 3.8 – 11.4 kW · 8 models


3.8 – 11.4 kW

RATED POWER

Split-phase

PHASE

2

MPPT TRACKERS

97 – 97.6 %

MAX. EFFICIENCY

Parameter	Unit	S6-EH1P3.8K-H-US	S6-EH1P5K-H-US	S6-EH1P6K-H-US	S6-EH1P7.6K-H-US	S6-EH1P8K-H-US	S6-EH1P9.9K-H-US	S6-EH1P10K-H-US	S6-EH1P11.4K-H-US
PV input									
Max. usable PV input power	W	6080	8000	9600	12160	12800	16000		18240
Max. PV input voltage	V	600							
Rated PV input voltage	V	380							
MPPT voltage range	V	80 – 520							
Start-up voltage	V	80							
Max. input current per MPPT	A	16							
Max. short-circuit current per MPPT	A	25.6							
Number of MPPT trackers		2	3	4					
PV strings per MPPT		1							
AC output									
Rated output power	W	3800	5000	6000	7600	8000	9990	10000	11400
Max. apparent power	VA	3800	5000	6000	7600	8000	9990	10000	11400
Rated AC voltage	V	240							
Rated AC output current	A	15.8	20.8	25	31.7	33.3	41.7		47.5
Phase		Split-phase							
Rated AC frequency	Hz	60							
Max. AC output current	A	15.8	20.8	25	31.7	33.3	41.7		47.5
Total harmonic distortion (THDi)	%	<3							
Power factor		>0.99 (0.8 leading to 0.8 lagging)							
Backup output power	W	3800	5000	6000	7600	8000	9990	10000	11400
Generator input		Yes							
AC input voltage range (220 V / 240 V)	V	193.6-242 / 211-264							

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Max. AC input current (220 V / 240 V)	A	25.9 / 23.8	34.1 / 31.2	40.9 / 37.5	51.8 / 47.6	54.4 / 49.9	68.2 / 62.6		77.7 / 71.3
Grid pass-through current (220 V / 240 V)	A	17.3 / 15.8	22.7 / 20.8	27.3 / 25.0	34.5 / 31.7	36.4 / 33.3	45.5 / 41.7		51.8 / 47.5
AC input frequency range	Hz	59.5-60.5 / 58.8-61.2							
Max. off-grid apparent power (10 s)	VA	6800	9000	10800	13700	14400	18000		20500
Grid / off-grid switching time	ms	<10							
Off-grid output voltage range (220 V / 240 V)	V	193.6-242 / 211-264							
Off-grid frequency range	Hz	55 – 65							
Max. off-grid output overcurrent protection, 10 s (220 V / 240 V)	A	27.7 / 25.4	36.4 / 33.3	43.6 / 40	55.5 / 50.7	58.2 / 53.3	72.7 / 66.7		82.7 / 76
Phase imbalance limit	%	100							
Backup port load type		Household loads and dedicated loads							
Off-grid THDv	%	<3							
Battery									
Battery type		High-voltage lithium battery							
Battery voltage range	V	120 – 500							
Max. charge current	A	25			50				
Max. discharge current	A	25			50				
Battery communication		CAN / RS485							
Efficiency									
Max. efficiency	%	97		–	97.6				
CEC efficiency	%	96.5		–	97				
Max. PV-to-battery charging efficiency	%	98.5							
Max. AC-to-battery charge/discharge efficiency	%	97.0							
Protection									
Protection functions		Ground fault detection; residual current detection; DC arc fault protection; DC reverse polarity protection; manual inverter bypass switch; rapid shutdown (NEC 2017); compatible with RSD receiver							
Protection class / overvoltage category		I / II							
General data									
Dimensions (W x H x D)	mm	490 × 720 × 220			560 × 750 × 220				
Weight	kg	23.78			32.54				
Topology		Transformerless							
Night-time power consumption	W	<20							
Operating temperature range	°C	–25 – 60							
Protection degree (enclosure type)		TYPE 4X							
Noise level	dB	<30							

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Cooling		Natural cooling							
Installation		Wall-mounted							
Max. operating altitude	m	4000							
DC port		Side and bottom (2 x 25.4 mm holes); spring terminals							
AC port		Side and bottom (3 x 38.1 mm holes); spring terminals							
High-precision meter		Optional							
Communication									
Display		LED indicators, Bluetooth + app							
Monitoring		Cloud monitoring platform (Modbus and API can be shared)							
Communication interfaces		RS485; Cellular (optional); Wi-Fi (optional); LAN (optional)							
Certifications									
Certifications and standards		UL1741SB; IEEE1547-2018; UL1699B; UL1998; FCC Part 15 Class B; California Rule 21; NEC 690.12-2020; CAN/CSA C22.2107.1-1; HECO Rule 14H; Luma Listed							

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.

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