

INVERTERS

S5-EH1P(3-6)K-L(Smart)

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


3 – 6 kW

RATED POWER

Single-phase

PHASE

2

MPPT TRACKERS

>97.1 %

MAX. EFFICIENCY

Parameter	Unit	S5-EH1P3K-L(Smart)	S5-EH1P3.6K-L(Smart)	S5-EH1P4.6K-L(Smart)	S5-EH1P5K-L(Smart)	S5-EH1P6K-L(Smart)
PV input						
Max. PV input power	W	4800	5700	8000		
Max. PV input voltage	V	600				
Rated PV input voltage	V	330				
Start-up voltage	V	120				
MPPT voltage range	V	90 – 520				
Max. input current per MPPT	A	15				
Max. short-circuit current per MPPT	A	22.5				
Number of MPPT trackers		2				
PV strings per MPPT		1				
AC output						
Rated output power	W	3000	3600	4600	5000	6000
Max. apparent power	VA	3300	4000	4600	5500	6600
Rated AC voltage	V	220				
Phase		Single-phase				
Rated AC frequency	Hz	50				
Rated AC output current	A	13.7	16.4	20.9	22.8	27.3
Max. AC output current	A	15	18.5	21	25	30
Power factor		>0.99 (0.8 leading to 0.8 lagging)				
Total harmonic distortion (THDi)	%	<2				
Grid input voltage range	V	187 – 253				
Max. grid input current	A	20.5	25	31.5	34.5	
Grid input frequency range	Hz	45 – 55				
Backup output power	W	3000		5000		

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Backup max. apparent power (10 s)	VA	4500		7000		
On/off-grid switching time	ms	<20				
Backup rated output voltage	V	220				
Backup rated output frequency	Hz	50				
Backup rated output current	A	14		23		
Backup output THDv	%	<2				
Battery						
Battery type		Lithium battery / Lead-acid battery				
Battery voltage range	V	42 – 58				
Battery capacity	Ah	50 – 2000				
Max. charge power	W	3000		5000		
Max. discharge power	W	3000		5000		
Max. charge current	A	62.5		100		
Max. discharge current	A	62.5		100		
Battery communication		CAN				
Efficiency						
Max. efficiency	%	>97.1				
European efficiency	%	>96.5				
Protection						
Protection functions		DC reverse-polarity protection; AC short-circuit protection; AC over-current protection; Surge protection (DC Type II / AC Type II); Ground fault monitoring				
Protection class / overvoltage category		I / II				
General data						
Dimensions (W x H x D)	mm	333 × 505 × 249				
Weight	kg	18.3				
Topology		High-frequency isolated (battery)				
Operating temperature range	°C	–25 – 60				
Ingress protection (IP rating)		IP65				
Cooling		Natural convection				
Max. operating altitude	m	3000				
DC port		MC4 connector				
AC port		Quick connector				
Communication						
Display		7-inch industrial-grade LCD				
Communication interfaces		RS485; Wi-Fi (optional); GPRS (optional)				

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Certifications						
Certifications and standards		IEC/EN 62109-1/-2; EN 61000-6-2/-3				
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; 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.

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