

INVERTERS

S6-EH1P(9.9-18)K03-NV-YD-L

Hybrid inverter · Single-phase · 9.9 – 18 kW · 5 models


9.9 – 18 kW

RATED POWER

Single-phase

PHASE

3

MPPT TRACKERS

97.6 %

MAX. EFFICIENCY

Parameter	Unit	S6-EH1P9.9K03-NV-YD-L	S6-EH1P12K03-NV-YD-L	S6-EH1P14K03-NV-YD-L	S6-EH1P16K03-NV-YD-L	S6-EH1P18K03-NV-YD-L
PV input						
Max. PV input power	W	19800	24000	28000	32000	36000
Max. usable PV input power	W	15800	19200	22400	25600	28800
Max. PV input voltage	V	550				
Rated PV input voltage	V	380				
Start-up voltage	V	100				
MPPT voltage range	V	80 – 520				
Max. input current per MPPT	A	40				42
Max. short-circuit current per MPPT	A	50				
Number of MPPT trackers		3				
Max. number of PV input strings		6				
AC output						
Rated output power	W	9900	12000	14000	16000	18000
Rated AC voltage	V	230				
Rated AC output current	A	43.1	52.2	60.9	69.6	78.2
Phase		Single-phase				
Rated AC frequency	Hz	50/60				
Power factor		>0.99 (0.8 leading to 0.8 lagging)				
Total harmonic distortion (THDi)	%	<3				
AC input voltage range (grid side)	V	187 – 253				
Max. AC input current (grid side, 220 V / 230 V)	A	67.5 / 64.5	81.8 / 78.3	95.5 / 91.3	109.1 / 104.3	122.7 / 117.4
AC input frequency range (grid side)	Hz	45-55 / 55-65				
Backup output power	W	9900	12000	14000	16000	18000

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Peak (surge) power	W	19800	24000	28000	32000	36000
Off-grid overload duration	s	10				
Grid / off-grid switchover time	ms	<10				
Rated output voltage, off-grid side		L/N/PE, 220 V / 230 V				
Rated frequency, off-grid side	Hz	50 / 60				
Rated output current, off-grid side (220 V / 230 V)	A	45 / 43.1	54.5 / 52.2	63.6 / 60.9	72.7 / 69.6	81.8 / 78.2
Total voltage harmonic distortion (THDv), off-grid side	%	<3				
Generator input		Yes				
Max. input power, generator side	W	9900	12000	14000	16000	18000
Max. input current, generator side (220 V / 230 V)	A	45 / 43.1	54.5 / 52.2	63.6 / 60.9	72.7 / 69.6	81.8 / 78.2
Rated input frequency, generator side	Hz	50 / 60				
Max. parallel units		6				
Battery						
Battery type		Lithium battery / Lead-acid battery				
Battery voltage range	V	40 – 60				
Max. charge current	A	208	250	290		320
Max. discharge current	A	208	250	290		320
Battery communication		CAN / RS485				
Efficiency						
Max. efficiency	%	97.6				
European efficiency	%	97				
Max. PV charging efficiency	%	>94.9				
Max. battery charge / discharge efficiency	%	>94.33 / 93.51				
Protection						
Protection functions		Surge protection; DC reverse polarity protection (PV side); Ground fault detection; DC arc fault protection (optional)				
Protection class / overvoltage category		Class I / OVC II (PV and battery ports), OVC III (grid, off-grid and generator ports)				
General data						
Dimensions (W x H x D)	mm	459 × 845 × 313				
Weight	kg	55.5				
Topology		Transformerless				
Operating temperature range	°C	–25 – 60				
Relative humidity	%	0 – 100				
Ingress protection (IP rating)		IP66				
Noise level	dB	<65				

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Cooling		Intelligent air cooling				
Max. operating altitude	m	4000				
PV connector		MC4 connector				
Battery connector		Terminal block				
AC connector		Terminal block				
Communication						
Display		7-inch LCD, Bluetooth + app				
Communication interfaces		RS485; Cellular (optional); Wi-Fi (optional); LAN (optional)				
Monitoring		Integrated cloud platform with remote control, AI strategy and instant troubleshooting				
Certifications						
Certifications and standards		IEC/EN 62109-1/-2; EN 61000-6-2/-3				
Grid codes		NRS 097-2-1; IEC 62116; IEC 61727; IEC 60068; IEC 61683; EN 50530; EN 50549-1				

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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