

INVERTERS

S6-EH3P(29.9-60)K-H(21A)

Hybrid inverter · Three-phase · 29.9 – 60 kW · 6 models


29.9 – 60 kW

RATED POWER

Three-phase

PHASE

3

MPPT TRACKERS

97.7 %

MAX. EFFICIENCY

Parameter	Unit	S6-EH3P29.9K-H(21A)	S6-EH3P30K-H(21A)	S6-EH3P40K-H(21A)	S6-EH3P49K-H(21A)	S6-EH3P50K-H(21A)	S6-EH3P60K-H(21A)
PV input							
Max. PV input power	W	59800	60000	80000	98000	100000	
Max. usable PV input power	W	59800	60000	80000	98000	100000	
Max. PV input voltage	V	1000					
Rated PV input voltage	V	600					
Start-up voltage	V	180					
MPPT voltage range	V	150 – 850					
Max. input current per MPPT	A	42					
Max. short-circuit current per MPPT	A	60					
Number of MPPT trackers		3		4			
Max. number of PV input strings		6		8			
Max. string input current	A	21					
AC output							
Rated output power	W	29900	30000	40000	49000	50000	60000
Max. apparent power	VA	29900	30000	40000	49000	50000	60000
Rated AC voltage	V	400					
Rated grid voltage options	V	220/380; 230/400					
Rated AC output current	A	43.2	43.3	57.7	70.7	72.2	86.6
Phase		Three-phase					
Rated AC frequency	Hz	50/60					
Power factor		> 0.99 (0.8 leading to 0.8 lagging)					
Total harmonic distortion (THDi)	%	<3					
Max. grid input power	W	59800	60000	80000	98000	100000	100000 / 105000

Parameter	Unit	S6-EH3P29.9K-H(21A)	S6-EH3P30K-H(21A)	S6-EH3P40K-H(21A)	S6-EH3P49K-H(21A)	S6-EH3P50K-H(21A)	S6-EH3P60K-H(21A)
Grid input voltage range	V	304 – 460					
Max. grid input current (380 V / 400 V)	A	90.8 / 86.4	91.2 / 86.6	121.6 / 115.4	149 / 141.4	152 / 144.4	152 / 152
Backup output power	W	29900	30000	40000	49000	50000	60000
Peak (surge) power	W	59800	60000	80000	98000	100000	120000
Overload capability, critical-load output		2 x rated power for 1.6 s; 1.5 x rated power for 10 s					
Grid / off-grid switchover time	ms	<10					
Rated output voltage, critical-load output	V	380 / 400					
Rated output frequency, critical-load output	Hz	50 / 60					
Rated output current, critical-load output (380 V / 400 V)	A	45.4 / 43.2	45.6 / 43.3	60.8 / 57.7	74.5 / 70.7	76 / 72.2	91.2 / 86.6
Max. bypass current, critical-load output (380 V / 400 V)	A	45.4 / 43.2	45.6 / 43.3	60.8 / 57.7	74.5 / 70.7	76 / 72.2	91.2 / 86.6
Total voltage harmonic distortion (THDv), critical-load output	%	<2					
Generator input		Yes					
Max. generator input power	W	29900	30000	40000	49000	50000	60000
Generator rated input current (380 V / 400 V)	A	45.4 / 43.2	45.6 / 43.3	60.8 / 57.7	74.5 / 70.7	76 / 72.2	91.2 / 86.6
Max. system capacity with parallel units	kW	600					
Battery							
Battery type		Lithium battery					
Battery voltage range	V	150 – 800					
Max. charge current	A	160					168
Max. discharge current	A	160					168
Number of battery inputs / BMS ports		2					
Max. charge / discharge current per battery input	A	80					84
Compatible battery module capacity	Ah	100 – 314					
Battery communication		CAN					
Efficiency							
Max. efficiency	%	97.7					
European efficiency	%	97.3					
Battery charging efficiency	%	98.5 / 97.8					
Battery discharging efficiency	%	97.5					

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Protection							
Protection functions		Surge protection (DC Type II / AC Type II); AC output overcurrent protection; Insulation resistance protection; Residual current (RCD) detection; Integrated PV switch; DC reverse polarity protection; DC arc fault protection (optional); Anti-islanding protection					
Protection class / overvoltage category		Class I / PV II, battery II, AC III					
General data							
Dimensions (W x H x D)	mm	530 × 880 × 290					
Weight	kg	76					
Topology		Non-isolated					
Operating temperature range	°C	-25 – 60					
Relative humidity	%	0 – 100					
Ingress protection (IP rating)		IP66					
Cooling		Intelligent redundant air cooling					
Max. operating altitude	m	4000					
Night-time power consumption	W	<35					
Max. single-phase load capacity		33% of rated power					
PV connector		MC4 quick-plug terminal					
Battery connector		Terminal block					
AC connector		OT terminal					
Communication							
Display		7-inch LCD, Bluetooth + app					
Communication interfaces		Wi-Fi; LAN; Bluetooth; CAN-BMS x2; CAN-Parallel x2; RS485-Meter; RS485; DRM; DI x3; DO x3; 4G (optional)					
Certifications							
Certifications and standards		IEC/EN 62109-1/-2; IEC/EN 61000-6-2/-4; EN 55011					
Grid codes		Planned: G99; VDE-AR-N 4105/VDE V 0124; EN 50549-1/EN 50549-10; PTPIREE; VDE 0126/XP C15/VFR:2019; NTS 631/RD 1699/UNE 217002; CEI 0-21; CEI 0-16; C10/11; NRS 097-2-1; TOR; EIFS 2018.2; IEC 62116; IEC 61727; DEWA; MEA; PEA; PORTARIA Nº 140/PORTARIA Nº 515					

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