

INVERTERS

S6-EH3P(29.9-50)K-H

Hybrid inverter · Three-phase · 29.9 – 50 kW · 4 models


29.9 – 50 kW

RATED POWER

Three-phase

PHASE

3

MPPT TRACKERS

97.8 %

MAX. EFFICIENCY

Parameter	Unit	S6-EH3P29.9K-H	S6-EH3P30K-H	S6-EH3P40K-H	S6-EH3P50K-H
PV input					
Max. PV input power	W	59800	60000	80000	100000
Max. usable PV input power	W	59800	60000	80000	96000
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	40			
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	20			
AC output					
Rated output power	W	29900	30000	40000	50000
Max. apparent power	VA	29900	30000	40000	50000
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	72.2
Phase		Three-phase			
Rated AC frequency	Hz	50/60			
Max. AC output current	A	43.2	43.3	57.7	72.2
Power factor		> 0.99 (0.8 leading to 0.8 lagging)			
Total harmonic distortion (THDi)	%	<3			
Max. bypass current (grid side, 380 V / 400 V)	A	90.8 / 86.4	91.2 / 86.6	121.6 / 115.4	152 / 144.4

Parameter	Unit	S6-EH3P29.9K-H	S6-EH3P30K-H	S6-EH3P40K-H	S6-EH3P50K-H
Generator input		Yes			
Max. generator input power	W	29900	30000	40000	50000
Generator rated input current (380 V / 400 V)	A	45.4 / 43.2	45.6 / 43.3	60.8 / 57.7	76 / 72.2
Max. system capacity with parallel units	kW	500			
Backup output power	W	29900	30000	40000	50000
Peak (surge) power	W	47840	48000	64000	80000
Off-grid overload duration	s	2			
Grid / off-grid switchover time	ms	<10			
Rated output voltage, off-grid side	V	380 / 400			
Rated frequency, off-grid side	Hz	50 / 60			
Rated output current, off-grid side (380 V / 400 V)	A	45.4 / 43.2	45.6 / 43.3	60.8 / 57.7	76 / 72.2
Total voltage harmonic distortion (THDv), off-grid side	%	<2			
Battery					
Battery type		Lithium battery			
Battery voltage range	V	150 – 800			
Max. charge power	W	32100	33000	44000	55000
Max. discharge power	W	32100	33000	44000	55000
Max. charge current	A	140			
Max. discharge current	A	140			
Number of battery inputs		2			
Max. charge / discharge current per battery input	A	70			
Max. charge / discharge power per battery input	W	32100	33000	35000	
Compatible battery module capacity	Ah	100 – 280			
Battery communication		CAN / RS485			
Efficiency					
Max. efficiency	%	97.8			
European efficiency	%	97.4			
Max. PV charging efficiency	%	98.5			
Max. battery charge / discharge efficiency	%	97.5			
Protection					
Protection functions		Anti-islanding protection; AC output overcurrent protection; AC short-circuit protection; Integrated DC switch; DC reverse polarity protection; Surge protection (DC Type II / AC Type II); DC arc fault protection (optional)			

Parameter	Unit	S6-EH3P29.9K-H	S6-EH3P30K-H	S6-EH3P40K-H	S6-EH3P50K-H
General data					
Dimensions (W x H x D)	mm	530 × 880 × 290			
Weight	kg	73			
Topology		Transformerless			
Night-time power consumption	W	<35			
Operating temperature range	°C	-25 – 60			
Relative humidity	%	0 – 100			
Ingress protection (IP rating)		IP66			
Cooling		Intelligent air cooling			
Max. operating altitude	m	4000			
PV connector		MC4 quick connector			
Battery connector		Terminal			
AC connector		Terminal block			
Communication					
Display		7-inch LCD, Bluetooth + app			
Communication interfaces		CAN; RS485; Ethernet; Wi-Fi (optional); Cellular (optional); LAN (optional)			
Certifications					
Certifications and standards		IEC/EN 62109-1/-2; IEC/EN 61000-6-2/-4; EN 55011			
Grid codes		G99; VDE-AR-N 4105/VDE V 0124; EN 50549-1/EN 50549-10; VDE 0126/UTE C 15/VFR:2019; NTS 631/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; PORTARIA Nº 140 (21 March 2022)			

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