

INVERTERS

S6-EH3P(30-50)K-H-ND

Hybrid inverter · Three-phase · 30 – 50 kW · 4 models


30 – 50 kW

RATED POWER

Three-phase

PHASE

3

MPPT TRACKERS

97.8 %

MAX. EFFICIENCY

Parameter	Unit	S6-EH3P30K-H-ND	S6-EH3P40K-H-ND	S6-EH3P49K-H-ND	S6-EH3P50K-H-ND
PV input					
Max. PV input power	W	60000	80000	98000	100000
Max. usable PV input power	W	60000	80000	96000	
Max. PV input voltage	V	1000			
Rated PV input voltage	V	600			
MPPT voltage range	V	150 – 850			
Start-up voltage	V	180			
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. input current per string	A	20			
AC output					
Rated output power	W	30000	40000	49000	50000
Max. apparent power	VA	30000	40000	49000	50000
Rated AC voltage	V	400			
Rated AC output current	A	43.3	57.7	70.7	72.2
Phase		Three-phase			
Rated AC frequency	Hz	50/60			
Max. AC output current	A	43.3	57.7	70.7	72.2
Total harmonic distortion (THDi)	%	<3			
Power factor		>0.99 (0.8 leading to 0.8 lagging)			
Backup output power	W	30000	40000	49000	50000
Peak (surge) power	W	48000	64000	78400	80000

Parameter	Unit	S6-EH3P30K-H-ND	S6-EH3P40K-H-ND	S6-EH3P49K-H-ND	S6-EH3P50K-H-ND
Generator input		Yes			
Rated AC voltage options (grid, generator and off-grid side)		3/N/PE, 220 V / 380 V or 230 V / 400 V			
Rated output current at 380 V / 400 V (grid side)	A	45.6 / 43.3	60.8 / 57.7	74.5 / 70.7	76 / 72.2
Max. bypass current (380 V / 400 V)	A	91.2 / 86.6	121.6 / 115.4	149 / 141.4	152 / 144.4
Generator input: Max. input power	W	30000	40000	49000	50000
Generator input: Rated input current (380 V / 400 V)	A	45.6 / 43.3	60.8 / 57.7	74.5 / 70.7	76 / 72.2
Generator input range (% of rated power)	%	20 – 100			
Off-grid: Peak power duration		2 s			
Off-grid: Rated output current (380 V / 400 V)	A	45.6 / 43.3	60.8 / 57.7	74.5 / 70.7	76 / 72.2
Off-grid: Grid / off-grid switchover time		<10 ms			
Off-grid: Total voltage harmonic distortion (THDv)	%	<2			
Smart multi-source input port (select one)		Grid-connected PV system; wind system; diesel generator			
PV coupling		DC and AC coupling			
Max. parallel system capacity	kW	500			
Battery					
Battery type		Lithium-ion			
Battery voltage range	V	150 – 800			
Max. charge current	A	140			
Max. discharge current	A	140			
Max. charge power	W	33000	44000	53900	55000
Max. discharge power	W	33000	44000	53900	55000
Number of battery input ports		2			
Max. charge/discharge current per battery port	A	70			
Max. charge/discharge power per battery port	W	33000	35000		
Battery communication		CAN / RS485			
Compatible battery capacity	Ah	100 – 280			
Efficiency					
Max. efficiency	%	97.8			
European efficiency	%	97.4			
Max. PV charging efficiency	%	98.5			
Max. battery charge/discharge efficiency	%	97.5			

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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)			
General data					
Dimensions (W x H x D)	mm	530 × 880 × 290			
Weight	kg	73			
Ingress protection (IP rating)		IP66			
Operating temperature range	°C	-25 – 60			
Relative humidity	%	0 – 100			
Max. operating altitude	m	4000			
Cooling		Smart air cooling			
Topology		Transformerless			
Night-time power consumption	W	<35			
PV connector		MC4 quick connector			
Battery connector		Wiring terminal			
AC connector		Terminal block			
Communication					
Display		LED indicators; Bluetooth + app			
Communication interfaces		CAN; RS485; Ethernet; Wi-Fi (optional); Cellular (optional); LAN (optional)			
Monitoring		Integrated cloud platform: remote control, AI strategies, instant fault troubleshooting			
Certifications					
Certifications and standards		IEC/EN 62109-1; IEC/EN 62109-2; IEC/EN 61000-6-2; IEC/EN 61000-6-4; 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 of 21 March 2022			

Specifications are subject to change without notice. Values are typical at 25 °C unless stated.

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