

INVERTERS

S6-EH3P(7-9)K02-LV-YD-L

Hybrid inverter · Three-phase · 7 – 9 kW · 3 models


7 – 9 kW

RATED POWER

Three-phase

PHASE

2

MPPT TRACKERS

96.2 %

MAX. EFFICIENCY

Parameter	Unit	S6-EH3P7K02-LV-YD-L	S6-EH3P8K02-LV-YD-L	S6-EH3P9K02-LV-YD-L
PV input				
Max. PV input power	W	14000	16000	18000
Max. usable PV input power	W	11200	12800	14400
Max. PV input voltage	V	1000		
Rated PV input voltage	V	550		
MPPT voltage range	V	200 – 850		
Start-up voltage	V	160		
Max. input current per MPPT	A	40		
Max. short-circuit current per MPPT	A	50		
Number of MPPT trackers		2		
Max. number of PV input strings		3		
AC output				
Rated output power	W	7000	8000	9000
Max. apparent power	VA	7000	8000	9000
Rated AC voltage	V	230		
Rated AC output current	A	17.6	20.1	22.6
Max. AC output current	A	18.4	21	23.5
Phase		Three-phase		
Rated AC frequency	Hz	50/60		
Total harmonic distortion (THDi)	%	<3		
Power factor		> 0.99 (0.8 leading to 0.8 lagging)		
Grid connection type		3/N/PE		
Rated AC voltage options (grid side)	V	127/220; 133/230		
Rated AC output current (grid side, as listed)	A	18.4 / 17.6	21 / 20.1	23.5 / 22.6

Parameter	Unit	S6-EH3P7K02-LV-YD-L	S6-EH3P8K02-LV-YD-L	S6-EH3P9K02-LV-YD-L
Max. AC input power (grid side)	W	10500	12000	13500
Max. AC input current (grid side)	A	27.6	31.5	35.4
AC input voltage (grid side)	V	127/220; 133/230		
AC input frequency range (grid side)	Hz	45-55 / 55-65		
Generator input		Yes		
Generator input: max. input power	W	7000	8000	9000
Generator input: max. input current	A	18.4	21	23.5
Generator input: rated input voltage	V	127/220; 133/230		
Generator input: rated input frequency	Hz	50 / 60		
Backup output power	W	7000	8000	9000
Peak (surge) power	W	14000	16000	18000
Off-grid overload duration	s	10		
Grid / off-grid switchover time	ms	<10		
Rated output voltage, off-grid side	V	127/220; 133/230		
Rated frequency, off-grid side	Hz	50 / 60		
Rated output current, off-grid side (as listed)	A	18.4 / 17.6	21 / 20.1	23.5 / 22.6
Max. continuous output current, off-grid side	A	18.4	21	23.5
Max. continuous bypass current	A	50		
Total voltage harmonic distortion (THDv), off-grid side	%	<3		
Max. parallel units		6		
Unbalanced output capability	%	100		
Battery				
Battery type		Lithium battery / lead-acid battery		
Battery voltage range	V	40 – 60		
Max. charge current	A	156	178	200
Max. discharge current	A	156	178	200
Battery communication		CAN / RS485		
Efficiency				
Max. efficiency	%	96.2		
European efficiency	%	95.4		
Max. PV charging efficiency	%	95.0 / 94.4		
Max. battery charge / discharge efficiency	%	94.5		
Protection				
Protection functions		Anti-islanding protection; AC output overcurrent protection; AC short-circuit protection; DC reverse polarity protection; Surge protection (DC Type II / AC Type II optional); DC arc fault protection (optional; included for Brazil); Integrated DC switch		

Parameter	Unit	S6-EH3P7K02-LV-YD-L	S6-EH3P8K02-LV-YD-L	S6-EH3P9K02-LV-YD-L
General data				
Dimensions (W x H x D)	mm	430 × 660 × 305		
Weight	kg	42		
Topology		Non-isolated		
Night-time power consumption	W	<30		
Operating temperature range	°C	-25 – 60		
Relative humidity	%	0 – 100		
Ingress protection (IP rating)		IP66		
Noise level	dB	<65		
Cooling		Intelligent air cooling		
Max. operating altitude	m	4000		
DC connector		MC4 quick connector (PV side) & screw terminal (battery side)		
AC connector		Screw terminal		
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 61000-6-1/-2/-3/-4		
Grid codes		Philippines; ORDINANCE (PORTARIA) No.140 and No. 515		

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

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