



7-10K

# SOLARATOR SERIES

Operates Seamlessly with Generator: Experience Uninterrupted Power, Even in Areas with Grid Instability

## S6-EH3P(7-10)K02-LV-YD-L

Three Phase | Low Voltage

- Supports PV input up to 160% of the inverter's rated DC power, maximising solar utilisation
- Supports up to 21A PV input current, compatible with future higher-power PV modules
- 200% overload for 10s in off-grid mode, ensuring stable startup of motors, water pumps and air conditioners
- Seamless on/off-grid switching in under 10ms, guaranteeing an uninterrupted power supply
- Support three-phase unbalanced output, each phase supports output max. 50% rated inverter power
- Supports both DC and AC coupling—making it easy to expand PV, charge batteries, and power loads reliably, even in off-grid conditions
- Multiple methods of generator connection and auto control, enabling flexible local deployment
- Support max 6 units in parallel, expanding system capacity
- Smart Load management with prioritisation, extending backup time for critical loads
- Customizable battery backup level for uninterrupted power
- Supports PV-only off-grid operation, reducing upfront costs
- SolisCloud: Smart remote control, AI optimisation, and instant troubleshooting — all in one platform
- 7-inch industrial-grade touchscreen, providing a larger, user-friendly interface for local operation
- Ingress protection IP66, for operation in harsh conditions

### PHILIPPINES

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# DATASHEET

Models	7K	8K	9K	10K
<b>Input DC (PV side)</b>				
Recommended max. PV array size	14 kW	16 kW	18 kW	20 kW
Max. usable PV input power	11.2 kW	12.8 kW	14.4 kW	16 kW
Max. input voltage	1000 V			
Rated voltage	550 V			
Start-up voltage	160 V			
MPPT voltage range	200 - 850 V			
Max. input current	20 A / 40 A		21 A / 42 A	
Max. short circuit current	30 A / 50 A		30 A / 50 A	
MPPT number / Max. input strings number	2 / 3			
<b>Battery</b>				
Battery type	Li-ion / Lead-acid			
Battery voltage range	40 - 60 V			
Max. charge / discharge current	156 A	178 A	200 A	235 A
Number of battery ports	2			
Max. charge / discharge current of each port	150 A			
Communication	CAN / RS485			
<b>Output AC (Grid side)</b>				
Rated output power	7 kW	8 kW	9 kW	10 kW
Max. apparent output power	7 kVA	8 kVA	9 kVA	10 kVA
Rated grid voltage	3/N/PE, 127 V / 220 V; 3/N/PE, 133 V / 230 V			
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	18.4 A / 17.6 A	21 A / 20.1 A	23.5 A / 22.6 A	26.3 A / 25.1 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)			
THDi	< 3%			
<b>Input AC (Grid side)</b>				
Max. input current	27.6 A / 26.3 A	31.5 A / 30.1 A	35.4 A / 33.8 A	39.4 A / 37.6 A
<b>Input Generator</b>				
Max. input power	7 kW	8 kW	9 kW	10 kW
Max. input current	18.4 A / 17.6 A	21 A / 20.1 A	23.5 A / 22.6 A	26.3 A / 25.1 A
Rated input voltage	3/N/PE, 127 V / 220 V; 3/N/PE, 133 V / 230 V			
Rated input frequency	50 Hz / 60 Hz			
<b>Output AC (Back-up)</b>				
Rated output power	7 kW	8 kW	9 kW	10 kW
Max. apparent output power	2 times of rated power, 10 s			
Back-up switch time	< 10 ms			
Rated output voltage	3/N/PE, 127 V / 220 V; 3/N/PE, 133 V / 230 V			
Rated frequency	50 Hz / 60 Hz			
Rated output current	18.4 A / 17.6 A	21 A / 20.1 A	23.5 A / 22.6 A	26.3 A / 25.1 A
Max. continuous output current	18.4 A	21 A	23.5 A	26.3 A
Max. continuous AC passthrough current	50 A			
THDv (@linear load)	< 3%			
<b>Efficiency</b>				
Max. efficiency	96.2%			
EU efficiency	95.4%			
BAT charged by PV / AC max. efficiency	95.0% / 94.4%			
BAT discharged to AC max. efficiency	94.5%			
<b>Protection</b>				
Anti-islanding protection	Yes			
Output over current protection	Yes			
Short circuit protection	Yes			
DC reverse-polarity protection	Yes			
Surge protection	DC Type II / AC Type II (Optional)			
Protection class / Over voltage category	I / II (PV and BAT), III (MAINS and BACKUP and GEN)			
Integrated AFCI 2.0	Optional			
Integrated DC switch	Yes			
<b>General Data</b>				
Max. power per phase	50% rated power		45% rated power	
Dimensions (W × H × D)	430 × 660 × 305 mm			
Weight	42 kg			
Topology	Non-isolated			
Self-consumption (night)	< 30 W			
Operating ambient temperature range	-25 ~ +60°C			
Relative humidity	0 - 100%			
Ingress protection	IP66			
Noise emission (typical)	< 65 dB(A)			
Cooling concept	Intelligent fan-cooling			
Max. operation altitude	4000 m			
Grid connection standard	Philippin, ORDINANCE (PORTARIA) No.140 and No. 515			
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3-4, EMC			
<b>Features</b>				
DC connection	MC4 Quick connection plug (PV) & Screw terminal (Battery)			
AC connection	Screw terminal			
Display	7.0" LCD display & Bluetooth + APP			
Communication	CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN			