

# DATASHEET

## S6-EH2P(10-18)K03-SV-YD-L

Models	10K	12K	14K	16K	18K
<b>Input DC (PV side)</b>					
Recommended max. PV power	16 kW	19.2 kW	22.4 kW	25.6 kW	28.8 kW
Max. input voltage	550 V				
Rated voltage	380 V				
Start-up voltage	100 V				
MPPT voltage range	100-450 V				
Full load MPPT voltage range	160-450 V		186-450 V		
Max. input current per MPPT	40 A				42 A
Max. short circuit current per MPPT	50 A				
Number of MPPTs / Number of strings per MPPT	3 / 2				
<b>Battery</b>					
Battery module models	SolisStor-5/10kWh-L-WM-20-SE; SolisStor-5/10/16kWh-L-WM-20; SolisStor-5/10/16kWh-L-WM-66; SolisStor-(5-40)kWh-L-ST-66				
Number of battery modules	1 ~ 8				
Battery voltage range	40 - 60 V				
Battery type	Li-ion / Lead-acid				
Max. charge / discharge current	208 A	250 A	290 A		320 A
Battery switch	Yes				
Communication	CAN / RS485				
Number of batteries per inverter	See Battery Compatibility Sheet				
<b>Output AC (Grid side)</b>					
Rated output power	10 kW	12 kW	14 kW	16 kW	18 kW
Max. apparent output power	10 kVA	12 kVA	14 kVA	16 kVA	18 kVA
Rated output voltage	220 V / 240 V				
Rated grid frequency	50 Hz / 60 Hz				
Rated grid output current	45.5 A / 41.7 A	54.5 A / 50 A	63.6 A / 58.3 A	72.7 A / 66.7 A	81.8 A / 75 A
Max. output current	45.5 A / 41.7 A	54.5 A / 50 A	63.6 A / 58.3 A	72.7 A / 66.7 A	81.8 A / 75 A
THDi	< 3%				
<b>Input AC (Grid side)</b>					
Input voltage range	193.6 - 242 V / 211 - 264 V				
Max. input current	200 A				
Frequency range	59.5 - 60.5 Hz / 58.8 - 61.2 Hz				
<b>Output AC (Back-up and Off-grid)</b>					
Rated output power	10 kW	12 kW	14 kW	16 kW	18 kW
Max. apparent output power	2 time of rated power, 10 s				
Back-up switch time	< 10 ms				
Phase power	L1/L2/N(PE), 120 V / 240 V (split phase)				
Rated output voltage (L1-L2)	220 V / 240 V				
AC output voltage range	193.6 - 242 V / 211 - 264 V				
Rated grid frequency	50 Hz / 60 Hz				
Rated output current	45.5 A / 41.7 A	54.5 A / 50 A	63.6 A / 58.3 A	72.7 A / 66.7 A	81.8 A / 75 A
Max. output over current protection, 10 sec	91 A / 83.4 A	109 A / 100 A	127.2 A / 116.6 A	145.4 A / 133.4 A	163.6 A / 150 A
Max. continuous AC passthrough	200 A				
Max. allowable phase imbalance	50%				
Backup support configurations	Dedicated loads and whole-home				
Power factor	> 0.99 (0.8 leading - 0.8 lagging)				
THDv (@linear load)	< 3%				
<b>Input Generator</b>					
Max. input power	30 kW				
Max. input current	125 A				
Rated input frequency	50 Hz / 60 Hz				
<b>Efficiency</b>					
Max. efficiency	96.02%				
CEC efficiency	95.45%				
Battery charged by PV max. efficiency	96.21%				
Battery charged / discharged to AC max. efficiency	94.16%/94.22%				
<b>Protection</b>					
Ground fault monitoring	Yes				
Integrated AFCI	Yes				
DC reverse-polarity protection	Yes (PV only)				
Protection class / Over voltage category	I / II				
<b>General Data</b>					
Dimensions (W × H × D)	534 × 930 × 297 mm				
Weight	65.8 kg				
Topology	Transformerless				
Operating ambient temperature range	-25°C ~ 60°C				
Ingress protection	TYPE 4X				
Noise emission (typical)	<65 dB(A)				
Self-consumption (night)	< 35 W				
Cooling concept	Intelligent fan-cooling				
Relative humidity range	0 - 100%				
Mounting type	Wall Bracket				
Max. operation altitude	4000 m				
Grid Certifications	IEEE 1547-2018, IEEE1547.1-2020, CA Rule 21				
Safety Certifications	UL 1741, UL 1741 SB, CSA C22.2107.1-1, UL 1741 PVRSS, UL 1699B, UL 1998 (US)				
Emissions	FCC Parte 15 Clase B				
<b>Features</b>					
DC connection	Terminal Block (PV port) / Terminal Block (BAT port)				
AC connection	Terminal Block				
Interface	7.0" LCD display & Bluetooth + APP				
Revenue grade meter	Optional				
Monitoring platform	SolisCloud (modbus map and API sharing available upon request)				
Communication	RS485, Optional: Cellular, Wi-Fi, LAN				