

**15-20K**

SOLARATOR SERIES

Works with a wide range of batteries: experience uninterrupted power supply, even in areas with an unstable grid

S6-EH3P(15-20)K-ND-H

Three Phase | High Voltage



Smart Energy Management

- AI intelligently manages charging and discharging based on time-of-use (TOU) electricity prices
- Seamless integration with VPP and EMS platforms for improved energy target control
- Built-in control for SG-ready heat pumps



High Performance

- Supports three-phase unbalanced output, up to 40% of rated power per phase
- 160% PV input capacity to maximize solar energy utilization
- Switchover time < 10 ms



Flexible & Scalable

- Compatible with large lithium batteries
- Easily expand system capacity via parallel connection and AC coupling



Easy & Fast Configuration

- Bluetooth app support for quick and easy installation

SWEDEN

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Datasheet

Model	15K	20K
Input DC (PV side)		
Recommended max. PV power	30 kW	40 kW
Max. usable PV input power	24 kW	32 kW
Max. input voltage	1000 V	
Rated voltage	600 V	
Start-up voltage	160 V	
MPPT voltage range	200 - 850 V	
Max. input current	4 × 20 A	
Max. current per input	20 A	
Max. short-circuit current	4 × 30 A	
MPPT number / Max. input strings number	4 / 4	
Battery		
Battery type	Li-ion	
Battery voltage range	120 - 800 V	
Max. charge / discharge current	50 A	
Battery port number / BMS port number	1 / 1	
Communication	CAN / RS485	
Output AC (grid side)		
Rated output power	15 kW	20 kW
Max. apparent output power	15 kVA	20 kVA
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V	
Rated grid frequency	50 Hz / 60 Hz	
Rated grid output current	22.8 A / 21.7 A	30.4 A / 28.9 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)	
THDi	< 3%	
Input AC (grid side)		
Max. input power	22.5 kW	30 kW
Input voltage range	304 - 437 V / 320 - 460 V	
Max. input current	34.2 A / 32.5 A	45.6 A / 43.3 A
Output AC (back-up)		
Rated output power	15 kW	20 kW
Max. apparent output power	1.6 times rated power, 10 s	
Back-up switch time ^①	< 10 ms	
Rated voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V	
Rated frequency	50 Hz / 60 Hz	
Rated output current	22.8 A / 21.7 A	30.4 A / 28.9 A
Max. AC pass-through current	34.2 A / 32.5 A	45.6 A / 43.3 A
THDv (@linear load)	< 3%	
Input AC (generator side)		
Max. input power	15 kW	20 kW
Rated input current	22.8 A / 21.7 A	30.4 A / 28.9 A
Rated input voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V	
Rated input frequency	50 Hz / 60 Hz	
Efficiency		
Max. efficiency	97.7%	
EU efficiency	97.5%	
BAT charged by PV / AC max. efficiency	98.5% / 97.2%	
Battery discharge efficiency	97.2%	
Protection		
Surge protection	DC Type II / AC Type II (optional)	
Output over-current protection	Yes	
Insulation resistance monitoring	Yes	
Residual current detection	Yes	
Integrated PV switch	Yes	
DC reverse-polarity protection	Yes	
Protection class / Overvoltage category	I / II (PV and BAT), III (MAINS, BACKUP and GEN)	
Anti-islanding protection	Yes	
General data		
Max. power per phase	40% of rated power	
Dimensions (W × H × D)	563 × 546 × 250 mm	
Weight	35.2 kg	
Topology	Transformerless	
Self-consumption	< 25 W	
Operating temperature range	-25 ~ +60°C	
Relative humidity	0 - 100%	
Ingress protection	IP66	
Noise emission (typical)	< 65 dB(A)	
Cooling concept	Intelligent redundant fan cooling	
Max. operating altitude	2000 m	
Grid connection standard	EN 50549-1/-10, VDE4105, CEI 0-21, CEI 0-16, NC-RFG TypeB, NRS 097-2-1, LTU-1, G99, PEA	
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4	
Features		
PV connection	MC4 connector	
Battery connection	Crimp connector	
AC connection	OT terminal	
Display	LED indicator & Bluetooth + APP	
Communication interface	Standard: WIFI+LAN+Bluetooth, CAN-BMS, CAN-Parallel×2, RS485-Meter, RS485, DRM, DI, DO×3	

① From on-grid to off-grid mode: for a single inverter system, the switching time is <10 ms.
For a parallel system of up to 6 inverters, the switching time is <20 ms.
If the customer wishes to connect more than 6 inverters in parallel, please contact the Solis technical team.