

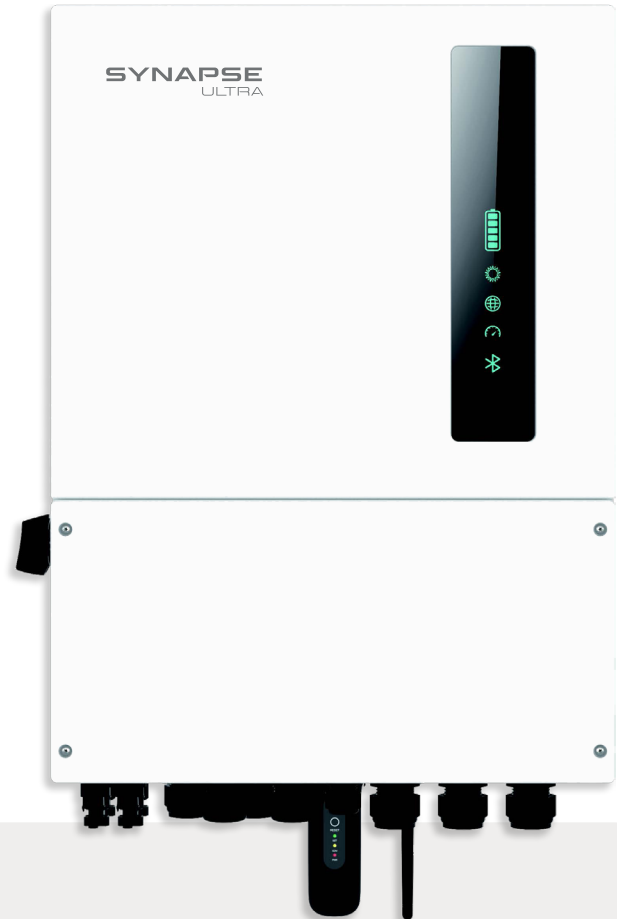
## 5kW Hybrid Inverter

Advanced Power Hybrid Inverter, 5kW, 25A

### Models:

S6-EH1P3K-L-PRO / S6-EH1P3.6K-L-PRO

S6-EH1P5K-L-PRO / S6-EH1P6K-L-PRO



### Features:

- Generator connectivity with multiple input methods and automatic generator On/Off control.
- Automatic UPS switching.
- 10 second 200% surge power backup overload capability.
- Supports 1ph and 3ph flexible connection with max 36kW in parallel.
- Up to 135A max charge/discharge current.
- 6 customisable charge/discharge time settings.
- Compatible with lead-acid and lithium batteries, with multiple battery protection features.
- Supports peak shaving control in both “self-use” and “generator” mode.

Models	3K	3.6K	5K	6K
<b>Input DC (PV side)</b>				
Recommended max. PV power	4.8kW	5.76kW	8kW	9.6kW
Max. input voltage	600V			
Rated voltage	330V			
Start-up voltage	90V			
MPPT voltage range	90-520V			
Max. input current	16A / 16A			
Max. short circuit current	24A / 24A			
MPPT number/Max. input strings number	2/2			
<b>Battery</b>				
Battery type	Li-ion / Lead-acid			
Battery voltage range	40-60V			
Max. charge / discharge power	3kW	3.6kW	5kW	6kW
Max. charge / discharge current	70A	80A	112A	135A
Communication	CAN/RS485			
<b>Output AC (Grid side)</b>				
Rated output power	3kW	3.6kW	5kW	6kW
Max. apparent output power	3.3kVA	4kVA	5.5kVA	6.6kVA
Operation phase	1/N/PE			
Rated grid voltage	220V / 230V			
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	13.6A / 13.0A	16.4A / 15.7A	22.7A / 21.7A	27.3A / 26.1A
Max. output current	15A	20A	25A	30A
Power factor	>0.99 (0.8 leading - 0.8 lagging)			
THDi	<2%			
<b>Input AC (Grid side)</b>				
Input voltage range	187-253V			
Max. input current	20A	25A	32A	40A
Frequency range	45-55Hz / 55-65Hz			

Models	3K	3.6K	5K	6K
<b>Output AC (Back-up)</b>				
Rated output power	3kW	3.6kW	5kW	6kW
Max. apparent output power	2 times of rated power, 10 s			
Back-up switch time	<4 ms			
Rated output voltage	1/N/PE, 220V / 230V			
Rated frequency	50 Hz / 60 Hz			
Rated output current	13.6A / 13.0A	16.4A / 15.7A	22.7A / 21.7A	27.3A / 26.1A
Max. output current	20A	25A	32A	40A
Max. AC Passthrough current	35A	35A	40A	40A
THDv (@linear load)	<2%			
<b>Efficiency</b>				
Max. efficiency	> 97.5%			
EU efficiency	> 96.2%			
<b>Protection</b>				
DC reverse-polarity protection	Yes			
Ground fault monitoring	Yes			
Integrated AFCI (DC arc-fault circuit protection)	Yes (Activation Required)			
Protection class/Over voltage category	I/II			
<b>General Data</b>				
Dimensions (W*H*D)	406*560*205 mm			
Weight	24 kg			
Topology	High frequency isolation (for battery)			
Operating ambient temperature range	-40 ~ +60°C			
Ingress protection	IP66			
Cooling concept	Natural convection			
Max. operation altitude	4000m			
Grid connection standard	NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA			
Safety/EMC standard	IEC/EN 62109-1/-2, EN 61000-6-2/-3			
<b>Features</b>				
DC connection	MC4 plug (PV port) / Terminal Block (BAT port)			
AC connection	Terminal Block			
Display	LED + APP			
Communication	RS485, CAN, Optional: Wi-Fi, GPRS, LAN			