

ON GRID INVERTER



## Three Phase Hybrid Inverter

### SUNHYBD-5HLG5 TO 12HLG5

#### Optimal Power & Storage

- 97.6% Max. Efficiency.
- 90-135A charge/discharge current.
- UPS Switching time <10ms.
- DC 16A current input, compatible with high power PV module.

#### Convenient Installation & Operation

- Smartphone enabled commissioning.
- LCD touchscreen color panel and app for setting & data management.
- Aesthetic, Elegant and compact size.

#### Strong Load & Back-up Capability

- 130% max. back-up output overloading @60s.
- 110% continuous AC output overloading.
- DC/AC ratio up to 1.3.
- Support diesel generator to charge battery directly, compatible with Li-ion and lead-acid batteries.

#### Smart Management

- Programmable supply priority for PV, Battery or Grid.
- Energy management through free online monitoring, remote firmware update with customizable settings.
- Remote firmware update and customizable settings.

## SOLAR GRID TIED INVERTER

### Technology Data

Model No.	SUNHYBD5HLG5	SUNHYBD6HLG5	SUNHYBD8HLG4	SUNHYBD10HLG5	SUNHYBD12HLG5
<b>PV (DC)</b>					
Recommended Max. PV Input Power	7500Wp	9000Wp	12000Wp	15000Wp	18000Wp
Max. Input Voltage	1000V				
Start-up Voltage	135V				
Rated Input Voltage	600V				
MPPT Input Voltage Range	135-900V				
MPPT Max. Input Current	16A/16A	16A/16A	16A/16A	16A/32A	16A/32A
MPPT Short-circuit Current	20A/20A	20A/20A	20A/20A	20A/40A	20A/40A
No. of MPPT	2				
No. of Strings per MPPT	1/1	1/1	1/1	1/2	1/2
<b>Grid (AC)</b>					
Max. Input Apparent Power	10000VA	12000VA	16000 VA	20000 VA	24000 VA
Rated Output Power	5000W	6000W	8000W	10000W	12000 W
Max. Output Apparent Power	5500VA	6600VA	8800 VA	10000 VA	13200 VA
Rated AC Voltage	3L/N/PE, 220 / 380V, 230/400 V, 240 V/415.4 V				
input/Output Voltage Range	180-300 v/200-253 v				
Rated Output Voltage Frequency	50/60 Hz				
in/Output Voltage Frequency Range	45-55 Hz				
Rated Output Current	7.2 A	8.7 A	11.6 A	14.5 A	17.4 A
Max. Input/Output Current	15.2/9.8 A	18.2/11.8 A	24.2/15.8 A	30.3/19.7 A	36.4/23.6 A
Power Factor (Rated)	>0.99				
Adjustable Power Factor Range	0.8 leading ... 0.8 lagging				
Total Harmonic Distortion	<0.3%(Rated Power)				
Grid Connection Mode	3L/N/PE				
<b>AC Load Output (Off-grid)</b>					
Rated Output Power	5000W	6000W	8000W	10000W	12000W
Max. Output Apparent Power	5000W	6000W	8000W	10000W	12000W
Rated Output Voltage (L/N/PE)	3L/N/PE, 220 / 380V, 230/400 V, 240 V/415.4 V				
Output Voltage Range	200/240V				
Rated Output Frequency	50Hz				
Rated Output Current	7.2A	8.7A	11.6A	14.5A	17.4A
Max. Output Current	9.8A	11.8A	16.8A	19.7A	23.6A
Total Harmonic Distortion	<3%(R Load)				
On-grid/Off-grid Switching Time	<10ms				
<b>Battery (DC)</b>					
Rated Output Power	5000W	6000W	8000W	10000W	12000W
Max.Charge/Discharge Power	12500W/5500W	12500W/6600W	12500W/8800W	12500W/11000W	12500W/13200W
Rated Voltage	135/800V				
Battery Voltage Range	25A/25A				
Max. Charge/Discharge Current	CAN/RS485				
Communication Port	CAN/RS485				
<b>Efficiency</b>					
Max. Efficiency	97.6%				
Max. MPPT Efficiency	99.9%				
Max. European Efficiency	97.0%				
<b>Protection</b>					
Integrated Protection	Anti-flow Protection, DC Reverse Protection, DC Circuit Breaker, Insulation Resistor Detection				
Surge Protection	DC Type II, AC Type II				
<b>Display and Communication</b>					
Display	LED+APP				
Communication	RS485/ USB, Optional: 4G, WIFI (Optional)				
<b>General Data</b>					
Dimensions (WxHxD)	516 x 442 x 222 mm				
Weight	24 kg				
Operating Temperature Range	-30~+60 C				
Noise	<35dB				
Cooling	Smart Cooling				
Installation Style	Wall-mounted				
Protection Rating	IP66				
Warranty	10 Years				