



Hybrid Inverter HS3-8KLH-W

Flexible Design & Use | Energy Independence |
Convenient Installation & Operation | Smart Management

1

Flexible Design & Use

- DC 16A current input, compatible with high power PV module.
- 32A charge/discharge current.
- Supports application in retrofit scenario.
- UPS switching time <10ms.

2

Energy Independence

- Fast charging / discharging to meet the demand of higher consumption.
- 10kW power of off-grid overloading@600s.
- DC/AC ratio up to 2.6.

3

Convenient Installation & Operation

- Unique push-in connectors for time-saving installation.
- Touch free commissioning with smartphone.
- Compact size and elegant appearance.

4

Smart Management

- Remote firmware update and customizable settings.
- Free online monitoring to enhance energy management for end user, installer and retailer.
- Programmable supply priority for PV, Battery or Grid.

MODEL	HS3KLH-W	HS3.6KLH-W	HS4.6KLH-W	HS5KLH-W	HS6KLH-W	HS8KLH-W
PV (DC)						
Max. PV Input Power*	7000 Wp	7000W Wp	12600 Wp	13000 Wp	14000 Wp	16000 Wp
Max. Input Voltage**	600 V					
Start-up Voltage	120 V					
Rated Input Voltage	370 V					
MPPT Input Voltage Range**	100-550 V					
MPPT Max. Input Current	16 A		16 A / 16 A			16 A / 32 A
MPPT Short-circuit Current	20 A		20 A / 20 A			20 A / 40 A
No. of MPPT	1				2	
No. of Strings per MPPT	1		1 / 1			1 / 2
Grid (AC)						
Max. Input Apparent Power***			10350 VA		12650 VA	
Rated Output Power	3000 W	3680 W	4600 W	5000 W	6000 W	8000 W
Max. Output Apparent Power	3000 VA	3680 VA	4600 VA	5000 VA	6000 VA	8000 VA
Rated AC Voltage	L/N/PE, 220/230/240 V					
Input/Output Voltage Range	154-276 V					
Rated Output Voltage Frequency	50/60 Hz					
Input/Output Voltage Frequency Range	(45-55)/(55-65) Hz					
Rated Output Current	13.04 A	16.00 A	20.00 A	21.74 A	26.09 A	34.78 A
Max. Input/Output Current***	45 / 16 A	45 / 18 A	45 / 23 A	45 / 25 A	45 / 28 A	55 / 36 A
Power Factor (Rated)	>0.99					
Adjustable Power Factor Range	0.8 leading ... 0.8 lagging					
Total Harmonic Distortion	<3% (Rated Power)					
Grid Connection Mode	L/N/PE					
AC Load Output (Off-grid)						
Rated Output Power	3000 W	3680 W	4600 W	5000 W	6000 W	8000 W
Max. Output Apparent Power	10000 VA@600s					
Rated Output Voltage	L/N/PE, 220/230/240 V					
Output Voltage Range	154-276 V					
Rated Output Frequency	50/60 Hz					
Rated Output Current	13.04 A	16.00 A	20.00 A	21.74 A	26.09 A	34.78 A
Max. Output Current	45 A					
Total Harmonic Distortion	< 3% (R Load)					
On-grid/Off-grid Switching Time	< 10 ms					
Battery (DC)						
Max.Charge/Discharge Power	8000 W / 8000 W					
Battery Voltage Range	85-460 V _{DC}					
Max. Charge/Discharge Current	32A / 32 A					
Communication Port	CAN/RS485					
Efficiency						
Max. Efficiency	97.6%					
Max. MPPT Efficiency	99.9%					
Max. European Efficiency	97.0%					
Protection						
Integrated Protection	Anti-flow Protection, DC Reverse Protection, DC Circuit Breaker, Insulation Resistor Detection, GFCI Leakage Current Monitoring, Output Shorted Protection, Output Over Current Protection, Grid Monitoring, Anti-islanding Protection, Residual Current Monitoring, BAT reverse Polarity Protection, BAT Shorted Protection, Off-grid Overload Protection					
Surge Protection	DC Type II, AC Type II					
Display and Communication						
Display	LED+APP					
Communication	RS485 / WiFi, 4G (Optional)					
General Data						
Dimensions (W×H×D)	516×442×222 mm					
Weight	22.5 kg					
Operating Temperature Range	-30~60 °C					
Noise	<30 dB					
Cooling	Natural Convection					
Installation Style	Wall-mounted					
Protection Rating	IP66					
Warranty	10 Years					
Standards Compliance						
Grid Connection	CEI 0-21, UNE 217001, UNE 217002, NTS Type A, VDE 4105, VDE 0126, EN 50438, G98, G99, EN50549, AS 4777.2					
Safety Regulation	EN/IEC 62109-1/2					
Others	EN/IEC 61000-6-1/3					

*Recommended PV power should be considered by battery capacity and actual household load.

**Max. PV input voltage is 460V when battery input voltage is less than 150V.

***The max. input power & current from grid refers to the ability of the inverter to charge the battery and bearing the load at the same time.