



# Hybrid Inverter

## HS3.6-6KLV-W

Optimal Power & Storage | Strong Load & Back-up |  
Convenient Installation & Operation | Smart Management |



# 1

### **Optimal Power & Storage**

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

# 2

### **Strong Load & Back-up**

- 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.

# 3

### **Convenient Installation & Operation**

- Touch free commissioning with smartphone;
- Color LCD touch screen and App for setting and data management;
- 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	HS3.6KLV-W	HS5KLV-W	HS6KLV-W
<b>PV (DC)</b>			
Recommended Max. PV Input Power	4680 Wp	6500 Wp	7800 Wp
Max. Input Voltage		500 V	
Start-up Voltage		125 V	
Rated Input Voltage		370 V	
MPPT Input Voltage Range		150-430 V	
MPPT Max. Input Current		16 A	
MPPT Short-circuit Current		20 A	
No. of MPPT		2	
No. of Strings per MPPT		1	
<b>Grid (AC)</b>			
Max. Input Apparent Power	7590 VA	7590 VA	9200 VA
Rated Output Power	3600 W	5000 W	6000 W
Max. Output Apparent Power	3960 VA	5500 VA	6600 VA
Rated AC Voltage		L/N/PE, 220 / 230 / 240 V	
Input/Output Voltage Range		180-300 V	
Rated Output Voltage Frequency		50/60 Hz	
Input/Output Voltage Frequency Range		(45-55)/(55-65) Hz	
Rated Output Current	15.7 A	21.7 A	26.1 A
Max. Input/Output Current	33 / 17.2 A	33 / 23.9 A	40 / 28.7 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	
<b>AC Load Output (Off-grid)</b>			
Rated Output Power	3600 W	5000 W	6000 W
Max. Output Apparent Power	3960 VA	5500 VA	6600 VA
Rated Output Voltage		L/N/PE, 220 / 230 / 240 V	
Output Voltage Range		200-240 V	
Rated Output Frequency		50/60 Hz	
Rated Output Current	15.7 A	21.7 A	26.1 A
Max. Output Current	17.2 A	23.9 A	28.7 A
Total Harmonic Distortion		< 3% (R Load)	
On-grid/Off-grid Switching Time		< 10 ms	
<b>Battery (DC)</b>			
Rated Output Power	3600 W	5000 W	6000 W
Max.Charge/Discharge Power	3600 W	5000 W	6000 W
Rated Voltage		48 V <sub>DC</sub>	
Battery Voltage Range		40-60 V <sub>DC</sub>	
Max. Charge/Discharge Current	90 A	120 A	135 A
Communication Port		CAN/RS485	
<b>Efficiency</b>			
Max. Efficiency		97.6%	
Max. MPPT Efficiency		99.9%	
Max. European Efficiency		96.5%	
<b>Protection</b>			
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, Off-grid Overload Protection.	
Surge Protection		DC Type II, AC Type II	
<b>Display and Communication</b>			
Display		LCD+LED+APP	
Communication		RS485, 4G (Optional), WiFi (Optional)	
<b>General Data</b>			
Dimensions (W×H×D)		580×330×232 mm	
Weight		20.5 kg	
Operating Temperature Range		-25~60°C	
Noise		<35 dB	
Cooling		Smart Cooling	
Installation Style		Wall-mounted	
Protection Rating		IP65	
Warranty		5 Years	
<b>Standards Compliance</b>			
Grid Connection		IEC 62116, IEC 61727, NRS 097-2-1, EN 50549, EN 50438, C 10/11, CEI 0-21, AS 4777.2, UNE 206006/206007, VDE 4105	
Safety Regulation		EN/IEC 62109-1/2	
Others		EN/IEC 61000-6-1/3, IEC 60068, IEC 61683	