



## SINGLE-PHASE HYBRID INVERTER

**HI-6K-SL****Real-Time Monitoring**

Keep an eye on your solar equipment's live performance and system status.

**Easy Settings**

Personalize your device settings to get the best out of your system.

**Demo Devices**

Explore Emem features through the demo library.

**Historical Data**

View past data like power generation, energy use, and grid consumption.

Technical Data	HI-6K-SL
<b>MODEL &amp; BATTERY</b>	
Nominal Battery Voltage	48Vdc
Battery Type	Lithium LiFePO4 / Lead-Acid / Flooded / User Defined
<b>AC INPUT</b>	
Nominal AC Input Voltage/Waveform	230Vac / Sinusoidal (Utility or Generator)
AC Input Range	90~280Vac (Appliances), 170Vac~280Vac (UPS)
Nominal Input Frequency	50/60Hz (Auto Detection)
AC Input Frequency Range	40~65±1Hz (+42 or <63±1Hz Comeback)
Max. Bypass Current	40Amp
Output Short Circuit Protection	Circuit Breaker
Transfer Time	10ms Typical (UPS), 20ms Typical (Appliances)
<b>AC CHARGER</b>	
Charging Algorithm	3-Step
Max. AC Charging Current	100Amp (@PV/P=230Vac)
Bulk Charging Voltage	58.4Vdc (AGM/Gel); 58.8Vdc (Flooded)
Floating Charging Voltage	54Vdc
Max. Hybrid Charging Current (Solar + Utility)	120Amp
<b>PV INPUT</b>	
Num. of Independent MPPT Tracker	1
MPPT Input Current	122Amp
Max. PV Array Power	7500W
Max. Solar Charge Current	120Amp
PV Array MPPT Voltage Range	60~450Vdc
Max. PV Array Open Circuit Voltage	500Vdc
MPPT Tracking Efficiency	99.9%
<b>INVERTER OUTPUT</b>	
Num. of Output Ports (Main & Second Output)	2
Rated Output Power (Main/Second Output)	6000W / 6000W
Max. Output Current (Main/Second Output)	26.1A / 26.1A
Surge Capacity	12000VA / 12000W for 5 Seconds
Output Voltage Waveform	Pure Sine Wave
Output Voltage	220/230/240 Vac ±5%
Output Frequency	50/60Hz ±1Hz
Peak Efficiency	94%
Low Voltage Cut-off Voltage	42Vdc
High Voltage Cut-off Voltage	63Vdc
Cold Start Voltage (When Only Connect with Battery)	46Vdc
No Load Power Consumption	<48W @48Vdc
Parallel Capacity	NO
<b>GENERAL</b>	
Operating Temperature Range	-10°C ~ 55°C
Storage Temperature	-15°C ~ 60°C
Humidity	5% to 95% Relative Humidity (Non-Condensing)
Altitude	<2000m
Noise	<60dB
Protection Degree	IP21, Indoor Only
Cooling Method	Intelligent Fan
Dimension (H×W×D)	510×340×120 mm
Weight	12 KG
Warranty	2 Years
<b>COMMUNICATION</b>	
Embedded Interface	RS232 / RS485 / Dry Contact
Work with WiFi & Bluetooth Monitoring Dongle	YES, by RS232
Work with Lithium Battery BMS	YES, by RS485
<b>CERTIFICATION</b>	
Certification / Standard	CE (IEC61000, IEC62109), IEC61683, IEC60068, RoHS