

LIB Hybrid Inverter 6kW

Single Phase • Low Voltage



High Efficiency

SiC technology with maximum efficiency up to 98% for high energy efficiency.



Less Noise

Ultra-quiet operation with noise emissions under 25 dB.



High Compatibility

150% PV Input Power, 2 MPPTs, and 18A PV Input Current for enhanced PV Panel compatibility.



Flexible Installation

IP65 ingress protection, adaptable to various installation environments.

ENERGY 

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Model	Isuna 6000S
PV Input	
Max. Input Power (Wp)	9,000
Max. Input Voltage (V)	600
Number of MPP Trackers	2
Number of PV strings per MPPT	1/1
MPPT Voltage Range (V)	80-500
Start-up Voltage (V)	95
Max. Input Current per MPPT (A)	18/18
Max. Short-Circuit Current per MPPT (A)	22/22
Battery	
Compatible Battery Models	LIB HomeStack series, LIB HomeTower series
Rated Battery Voltage (V)	51.2
Battery Voltage Range (V)	42-58
Max. Charging Voltage (V)	≤60
Max. Charging/Discharging Current (A)	100
AC Input/Output (Grid Port)	
Rated Output Power (kW)	6
Max. Input Power of Grid (kVA)	6
Max. Output Current (A)	27.2
Rated Grid Voltage (V)	220/230/240
Max. Input Current from Grid (A)	27.2
Grid Voltage Range (V)	184-276
Rated Grid Frequency (Hz)	50/60
Grid Frequency Range (Hz)	45-65
Power Factor	0.8 leading-0.8 lagging
THDi (@Rated Power)	< 3%
AC Output (Backup Port)	
Rated Output Power (kW)	6
Rated Output Voltage (V)	220/230/240
Rated Frequency (Hz)	50/60
Rated Output Current (A)	27.2
THDu	<2%
Peak Power (kW) / Duration	7.2 (10s)*
On/Off Grid Switching Time (ms)	< 20
Efficiency	
Max. Efficiency	98.0%
European Efficiency	97.5%
Max. Battery Charging/Discharging Efficiency	95.2%
General	
Dimensions (W×H×D)(mm)	500 x 470 x 180
Weight (kg)	21
Noise Level (dB)	<25
Operating Temperature Range (°C)	-25-60 (>40 Derating)
Operating Altitude (m)	4000 (>3000 Derating)
Cooling Method	Natural Cooling
Ingress Protection Rating	IP65
Monitoring	LED/WIFI/4G/Bluetooth/RS485
Communication	RS485/CAN/DRED/Dry contact/Parallel port
Protection	DC Switch; AC Overvoltage Protection; AC Overcurrent Protection; AC Short Circuit Protection; Anti-islanding Protection; Residual Current Monitoring; PV Insulation Resistance Detection; Surge Protection:LEVEL II; Reverse Polarity Protection(PV&Battery);Lightning Protection
Certifications	
Safety	IEC62109-1&2, IEC62477-1
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4
Grid	AS4777.2:2020+Amd 1:2021, EN50549-1