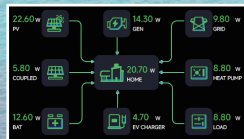


On/Off-grid | Single Phase | Low Voltage

Hybrid Inverter

3/4/5/6 kW



Product Features



Wide PV Input

- 150%-200% PV Input Power
- 18A PV Input Current
- 2 MPPT Tracks



Robust Grid Input

- 184%-368% Grid Input Power
- Grid Input Current 50A
- Supports simultaneous load power supply and battery charging



High Efficiency

- Silicon Carbide (SiC) Technology
- Max. Conversion Efficiency up to 97.6%
- Lower losses, higher power generation for improved energy-use returns



Wide Grid Voltage

- 184-276V Supported Grid Voltage
- Suitable for areas with fluctuating mains voltage
- Stable performance under weak-grid conditions



Strong Overload

- Supports 130%-260% continuous overload
- Smooth startup, no tripping & no power interruption



Parallel Operation

- Up to 6-unit parallel operation (off-grid mode)
- Flexible power expansion for high-power loads
- Intelligent thermostatic fan, low-noise running



Battery Compatibility

- Compatible with lead-acid, lithium and sodium-ion batteries
- Intelligent charge-discharge strategy
- Precise protection extends battery life



Seamless Switching

- 0 ms off-grid to grid-tied switch*
- 4 ms grid-tied to off-grid switch*
- Smooth startup; no tripping no power outage



Executive Gen Smart Load Port

- Auto start-stop for generator
- Max. generator input current 54A

Model Name	Isuna S3K-SL-S	Isuna S4K-SL-S	Isuna S5K-SL-S	Isuna S6K-SL-S
	Off-grid Output			
Rated Output Power	3kW	4kW	5kW	6kW
Rated Output Current	13.6A	18.2A	22.7A	27.2A
Peak Power & Duration	7.8kVA-1s/9kVA-100ms			
Rated Voltage	220V/230V/240V			
Rated Frequency	50/60Hz			
THDu	<2%			
	On-grid Parameter			
Rated Output Power	3kW	4kW	5kW	6kW
Max. Output Current	13.6A	18.2A	22.7A	27.2A
Max. Grid Input Current	50A			
Rated On-grid Voltage	220V/230V/240V			
Grid Voltage Range	184-276V			
Frequency Range	45-65Hz			
	PV Input			
Rec. Max. Install Pwr.	11250Wp			
Max. Input Power	9000Wp			
Startup Voltage	80V			
Max. Input Voltage	500V			
MPPT Voltage Range	65-500V			
Number of MPPT	2			
No. of Strings per MPPT	1			
Rated Voltage	360V			
Max. Input Current	18A/18A			
Short-ckt Current	22A/22A			
	Battery Parameter			
Battery Type	Lithium-ion/Lead-acid/Sodium-ion			
Rated Voltage	51.2V			
Battery Voltage Range	30-60V			
Max. Chg-Dischg. Curr.	125A			
	Generator Parameter			
Max. Input Current	50A			
Rated Output Voltage	L/N/PE, 220V/230V/240V			
Voltage Range	184~276V			
	Efficiency			
Max. Efficiency	97.5%	97.6%	97.6%	
European Efficiency	97.2%			
Max. Batt. Chg-Disch. Efficiency	94%			
	General Data			
Dimensions(W*H*D)	325*480*221.5mm			
Weight	21kg			
Noise Level	<45dB(A)			
Operating Temperature	-25℃ ~ +60℃ (>45℃ Derating)			
Operating Altitude	4000m(>3000m Derating)			
Cooling Type	Intelligent Air Cooling			
IP Rating	IP65			
HMI Mode	LCD/APP/WIFI/Bluetooth/4G/LAN			
Comm. Interface	RS485/CAN/DO/Parallel port			
Protection	DC Switch; Overload / Over-voltage Protection; AC Short-circuit Protection; Anti-islanding Protection; Residual Current Detection; Over-voltage Category: AC side: CategoryIII, Battery & PV: Category II ; Surge Protection; Lightning Protection: TYPE II ; Reverse-insertion Protection (PV & Battery)			
	Certification			
CE-LVD	IEC 62109-1, IEC 62109-2, EN 62109-1, EN 62109-2, IEC 62477-1			
CE-EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 62920			
Grid	IEC 62116&61727			

*Technical data are typical laboratory values and may vary in practical application