

On/Off-grid | Single Phase | Low Voltage

Hybrid Inverter

10/12 kW



Product Features



Wide PV Input

- 166%-200% PV Input Power
- 36A PV Input Current
- 2 MPPT Tracks



Robust Grid Input

- 153%-184% Grid Input Power
- Supports simultaneous load power supply and battery charging



High Efficiency

- Silicon Carbide (SiC) Technology
- Max. Conversion Efficiency up to 98.8%
- Lower losses, higher power generation for improved energy-use returns



Wide Grid Voltage

- 184-276V Supported Grid Voltage
- Supports 45-65 Hz frequency
- Suitable for areas with fluctuating mains voltage



Strong Overload

- Supports 150%-180% 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
- Stable parallel connection & great expandability



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



Long Official Warranty

- 5-year standard warranty included
- IP65 protection rating stable and durable
- Intelligent temperature-controlled fan for quiet operation



Executive Gen Smart Load Port

- Auto start-stop for generator
- Max. generator input current 80A

Model Name	Isuna E10K-SL-S	Isuna E12K-SL-S
	Off-grid Output	
Rated Output Power	10kW	12kW
Rated Output Current	43.5A	52.2A
Peak Power & Duration	18kW-10s(BAT+PV)	
Rated Voltage	L/N/PE, 220V/230V/240V	
Rated Frequency	50/60Hz	
THDu	<2%	
	On-grid Parameter	
Rated Output Power	10kW	12kW
Max. Output Current	43.5A	52.2A
Rated Grid Voltage	230V	
Grid Voltage Range	184-276V	
Rated Input Frequency	50/60Hz	
	PV Input	
Rec. Max. Install Pwr.	24kWp	
Max. Input Power	20kWp	
Startup Voltage	95V	
Max. Input Voltage	500V	
MPPT Voltage Range	80-500V	
Number of MPPT	2	
No. of Strings per MPPT	2	
Rated Input Voltage	360V	
Max. Input Current	36A/36A	
Short-ckt Current	44A/44A	
	Battery Parameter	
Battery Type	Lithium-ion/Lead-acid/Sodium-ion	
Rated Battery Voltage	51.2V	
Battery Voltage Range	30-60V	
Max. Chg-Disch. Curr.	240A	
	Generator Parameter	
Max. Input Current	75A	
Rated Output Voltage	L/N/PE, 220V/230V/240V	
Voltage Range	184~276V	
	Efficiency	
Max. Efficiency	98.8%	
European Efficiency	97.8%	
Max. Batt. Chg-Disch. Efficiency	95%	
	General Data	
Dimensions(W*H*D)	400*530*221mm	
Noise Level	<45dB(A)	
Weight	29.5kg	
Operating Temperature	-25℃ ~ +60℃ (40-45℃ Derating)	
Operating Altitude	≤4000m	
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: Category III, 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	

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