

On/Off-grid | Split Phase | High Voltage

Hybrid Inverter

5/6/8/10/12/15/20 kW



Product Features



Wide PV Input

- 200% PV Input Power
- Supports 4 Independent MPPT Tracks
- Max PV Input Current per Track 36A



Robust Grid Input

- 200% Grid Input Power
- Max. Grid Input Power 48kW
- Supports Whole-house Loads



High Efficiency

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



Executive Gen Smart Load Port

- Intelligent generator start-stop control
- Max. generator input current 200A



Strong Overload

- Supports 160% continuous overload
- Easily drives inductive loads
- Smooth startup, no tripping & no power interruption



Slim & Compact Design

- 180 mm ultra-slim design compact footprint
- Easier installation & lower shipping costs



Battery Compatibility

- Fully compatible with lead-acid & lithium batteries
- 2 independent battery ports
- Mixed new/old battery support



Long Official Warranty

- 5-year standard warranty included
- IP66 protection rating stable and durable



Intelligent Silent Cooling

- Intelligent temperature-controlled fan for quiet operation

Model Name	Isuna U5K-PH	Isuna U6K-PH	Isuna U8K-PH	Isuna U10K-PH	Isuna U12K-PH	Isuna U15K-PH	Isuna U20K-PH
	Off-grid Output						
Rated Output Power	5kW	6kW	8kW	10kW	12kW	15kW	20kW
Rated Output Current	21A	25A	33.5A	41.7A	50A	62.5A	83.5A
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA	16.5kVA	22kVA
Peak Power&Duration*	1.1× continuous, 1.6× for 10 s						
Rated Frequency	50/60Hz						
Switching Time	<8ms						
	On-grid Parameter						
Rated Output Power	5kW	6kW	8kW	10kW	12kW	15kW	20kW
Rated Output Current	21A	25A	33.5A	41.7A	50A	62.5A	83.5A
Grid Input Current	200A						
Grid Input Voltage	211-264Vac						
Rated Grid Voltage	120V/240V/208V(Configurable manually for 240V single-phase)						
	Generator Parametert						
Input Power	48kW						
Input Current	200A						
	PV Input						
Rec. Max. Install Pwr.	12.5kWp	15kWp	20kWp	25kWp	30kWp	37.5kWp	37.5kWp
Max. Input Power	10kWp	12kWp	16kWp	20kWp	24kWp	30kWp	30kWp
No. of Strings per MPPT	1/1/1/1	1/1/1/1	1/1/1/1	1/1/1/1	1/1/1/1	2/2/1/1	2/2/2/2
MPPT Max. Input Curr.	18A	18A	18A	18A	18A	36A/36A/18A/18A	36A
MPPT Short-ckt Curr.	22A	22A	22A	22A	22A	44A/44A/22A/22A	44A
Startup Voltage	95V						
MPPT Voltage Range	80-500V						
No. of MPPT	4						
	Battery Parameter						
Battery Type	Lithium-ion/Lead-acid						
Battery Voltage Range	80-480V						
Max. Chg-Dischg. Curr.	50A*2						
	Efficiency						
Max. Efficiency	97.6%						
CEC Efficiency	97.2%						
PV-to-Batt. Chg. Eff.	97.7%						
Max. Chg-Dischg. Pwr.	96.6%						
	General Data						
Dimensions(W*H*D)	31.5*18.5*7.1 in/800*470*180 mm						
Weight	105lb/48kg						
Operating Temperature	-13~140°F/-25~60°C(>104°F/40°C Derating)						
Operating Altitude	4000m(>3000m Derating)						
IP Rating	IP66/NEMA 4X						
Comm. Interface	WiFi/LAN/4G/Bluetooth						
Batt. Comm. Interface	CAN*2/RS485*2						
Dry Contact	DO*, DI*2 (RSD Rapid Shutdown + E-Stop Switch)						
ATS Function	Built-in						
Protection	PV DC Switch; Ground-fault Detection; RSD Rapid Shutdown Control; PV Arc-fault Detection; PV Surge Protection; Surge Protection: DC Type II / AC Type II; PV Reverse-insertion Protection; AC Grid Input Circuit Breaker						
	Certification						
UL	UL 1741, CSA 22.2 No. 107-01, UL 1998, UL1699B						
FCC	FCC part15 CLASS B						
Grid	UL1741 SB, California Rule 21, HECO Rule 14, IEEE 1547, IEEE 1547.1						

* Overload output requires adequate PV output