

On/Off-grid | Three Phase | High Voltage

Hybrid Inverter

22/25/29.9/30/40/42.5/50 kW



Product Features



Wide PV Input

- 150%–340% PV Input Power
- Supports 4 Independent MPPT Tracks
- Max PV Input Current per Track 40A



Robust Grid Input

- 200%–470% Grid Input Power
- Grid Input Current 150A
- Supports simultaneous load power supply and battery charging



High Efficiency

- Silicon Carbide (SiC) Technology
- Max. Conversion Efficiency up to 98.6%
- Lower losses, higher power generation for improved energy-use returns



Executive Gen Smart Load Port

- Auto start-stop for generator
- Max. generator input current 150A



Strong Overload

- 100% unbalanced three-phase output
- Supports 150% 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



Battery Compatibility

- Compatible with lead-acid, lithium and sodium-ion batteries
- 2 independent battery ports
- Mixed new/old battery support



Long Official Warranty

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



Value-added Function

- AFCI function (Optional)
- VSG function, 0ms switchover between inverter & diesel generator
- Generator & inveter supplying to load in parallel

Model Name	Isuna L22K-TH	Isuna L25K-TH	Isuna L29.9K-TH	Isuna L30K-TH	Isuna L40K-TH	Isuna L42.5K-TH	Isuna L50K-TH
	Off-grid Output						
Rated Output Power	22kW	25kW	29.9kW	30kW	40kW	42.5kW	50kW
Max. Apparent Power	24.2kVA	27.5kVA	29.9kVA	33kVA	44kVA	42.5kVA	55kVA
Rated Output Current	31.9A	36.3A	43.5A	43.5A	58A	61.6A	72.5A
Max. Output Current	35.1A	39.9A	43.5A	47.9A	63.8A	61.6A	79.8A
Rated Voltage	3L/N/PE, 220/380V; 230/400V						
Rated Frequency	50/60Hz						
Peak Power & Duration	150%-10s						
GEN Input Current	150A						
THDu	<3%						
	On-grid Parameter						
Rated Output Power	22kW	25kW	29.9kW	30kW	40kW	42.5kW	50kW
Rated Output Current	31.9A	36.3A	43.5A	43.5A	58A	61.6A	72.5A
Rated Grid Voltage	3L/N/PE, 220/380V; 230/400V						
Rated Frequency	50/60Hz						
Grid Input Current	150A						
	PV Input						
Rec. Max. Install Pwr.	93750Wp						
Max. Input Power	75kWp						
Max. Input Voltage	1000V						
Rated Voltage	600V						
Startup Voltage	180V						
MPPT Voltage Range	150-850V						
No. of Strings per MPPT	4/8						
Max. Input Current	4*40A						
Short-ckt Current	4*60A						
	Battery Parameter						
Battery Type	Lithium-ion/Lead-acid/Sodium-ion						
Battery Voltage Range	140-800V						
Max. Chg-Dischg. Curr.	80A*2						
No. of Battery Inputs	2						
Max. Chg-Dischg. Pwr.	22kW	25kW	29.9kW	30kW	40kW	42.5kW	50kW
	Generator Parameter						
Max. Input Current	150A						
Rated Output Voltage	3/N/PE, 220/380Vac, 230/400Vac						
Voltage Range	185~276V(P2N)						
	Efficiency						
Max. Efficiency	98.6%						
European/CEC Eff.	97.97%						
Max. Batt. Chg-Disch. Efficiency	98%						
	General Data						
Dimensions(W*H*D)	880*550*295mm						
Weight	88kg						
Noise Level	<55dB(A)						
Operating Temperature	-25℃ ~ +60℃						
Operating Altitude	4000m(>3000m Derating)						
Operating Humidity	0-100%						
IP Rating	IP66						
Cooling Type	Intelligent Air Cooling						
HMI Mode	4G/LCD/LED/APP/WIFI/Bluetooth						
Comm. Interface	RS485*1, Internet/WIFI/4G, DO*2, DI*2, AI*1, AO*1, DRM*1						
DC Power	12VDC 2A						
	Certification						
CE-EMC	EN IEC 61000-6-2, EN IEC 61000-6-4, EN IEC 61000-3-11, EN 61000-3-12+A1 EN 62920+A1, EN 55011+A2						
CE-LVD	EN IEC 62109-1, EN IEC 62109-2						
Grid	EN 506549-1, EN 506549-10, IEC 62116&61727, CEI 021, CEI 016 AS/NZS4777.2						