



On/off-grid | Three Phase | High Voltage
Hybrid Inverter

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

Product Features

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SiC Technology,
Max. Efficiency 98.6%
- 

2 Independent Battery
Ports for Mixture Use of
Old & New Battery
- 

150%-340% PV Input Power,
4 MPPTs, PV Input Current 40A,
Higher Compatibility with PV Panel
- 

200%-470% Grid Input Power,
150A Grid Input Current
Supplying to Loads & Charging
Battery in Parallel
- 

150% Overload,
AFCI Function(Optional)
- 

Smaller Size, Easier for
Installation and Price-wise
in Shipping
- 

Executive Generator Port,
Smart Monitoring
Max.Generator Input
Current 150A
- 

Battery Current 160A,
High Adapability with
Battery
- 

6 Units in Parallel
(Off-grid Mode)

Model Name	Isuna L22K-TH-S	Isuna L25K-TH-S	Isuna L29.9K-TH-S	Isuna L30K-TH-S	Isuna L40K-TH-S	Isuna L42.5K-TH-S	Isuna L50K-TH-S
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 Voltage	3L/N/PE, 220/380V; 230/400V						
Rated Frequency	50Hz/60Hz						
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
Peak Power & Duration	150%(10s)						
Generator Input Current	150A						
THDu	<3%						
On-grid Parameter							
Rated Output Power	22kW	25kW	29.9kW	30kW	40kW	42.5kW	50kW
Rated Grid Voltage	3L/N/PE, 220/380V; 230/400V						
Rated Grid Frequency	50Hz/60Hz						
Rated Output Current	31.9A	36.3A	43.5A	43.5A	58A	61.6A	72.5A
Grid Input Current	150A						
PV Input							
Max. DC Input Power	75000Wp						
Max.Input Voltage	1000V						
Rated Input Voltage	600V						
Starting Voltage	180V						
MPPT Voltage Range	150-850V						
Max. Input String Per MPPT	4/8						
Max. DC Input Current	4*40A						
Short-circuit Current	4*60A						
Battery Parameter							
Battery Type	Lithium-ion/Lead-Acid/Sodium-ion						
Battery Voltage Range	140-800V						
Max. Charing/Discharing Power	22kW	25kW	29.9kW	30kW	40kW	42.5kW	50kW
Max. Charing/Discharing Current	80A*2						
Number of Battery Input Ports	2						
Efficiency							
Max. Efficiency	98.6%						
European Efficiency/CEC Efficiency	97.97%						
Max. Battery Charging/Discharging Efficiency	98%						
General Data							
Size(W*H*D)	850mm*550mm*295mm						
Weight	88kg						
Noise	55dB(A)						
Operating Temperature	-25°C~+60°C						
Operating Altitude	4000m(>3000m Derating)						
Humidity Range	0-100%						
Ingress Protection Grade	IP66						
Cooling Method	Intelligent Air Cooling						
Monitoring	LED+Bluetooth+APP, WIFI/LAN/4G						
Communication Port	RS485*1, Internet/WIFI/4G, DO*2, DI*2, AI*1, AO*1, DRM*1						
DC Power	12VDC 2A						