












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

22/25/29.9/30/40/42.5/50/60kW

Product Features

- 
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) Topology (Transformless)
- 
Equipped with a Wi-Fi dongle for remote monitoring access via web portal
- 
Support for operation mode in off grid and On grid system

Model Name	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	Isuna L60K-TH-S
Off-grid Output							
Rated Output Power	25kW	29.9kW	30kW	40kW	42.5kW	50kW	60kW
Max. Apparent Power	27.5kVA	29.9kVA	33kVA	44kVA	42.5kVA	55kVA	60kVA
Rated Voltage	3L/N/PE, 220/380V; 230/400V						
Rated Frequency	50Hz/60Hz						
Rated Output Current	36.3A	43.5A	43.5A	58A	61.6A	72.5A	87A
Max. Output Current	39.9A	43.5A	47.9A	63.8A	61.6A	79.8A	87A
Peak Power & Duration	150%(10s)						
Generator Input Current	150A						
THDu	<3%						
Topology	Transformerless						
Power Factor	min 0.8 leading- 0.8 legging						
On-grid Parameter							
Rated Output Power	25kW	29.9kW	30kW	40kW	42.5kW	50kW	60kW
Rated Grid Voltage	3L/N/PE, 220/380V; 230/400V						
Rated Grid Frequency	50Hz/60Hz						
Rated Output Current	36.3A	43.5A	43.5A	58A	61.6A	72.5A	87A
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/Discharging Power	25kW	29.9kW	30kW	40kW	42.5kW	50kW	60kW
Max. Charing/Discharging 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						
Protection	DC Switch; Reverse Polarity Protection (Input Reverse Polarity); AC Overvoltage/Undervoltage Protection; AC/DC Overcurrent Protection; AC Short Circuit Protection;Over/Under Frequency Protection; Anti-islanding Protection; Ground Fault Protection; Residual Current Monitoring;Insulation Resistance Detection; Surge Protection: DC Type II / AC Type III; Over Temperature Protection; AFCI/PID Optional						