

On/off-Grid | Three Phase | High Voltage

Hybrid Inverter

75/100/125/150 kW



Product Features



Wide PV Input

- 200%PV input power
- Supports 10 MPPT channels
- 48A PV input current



Robust Grid Input

- 270A Grid input current
- Supports simultaneous load power supply & battery charging



High Efficiency

- Max. efficiency 98.8%
- SiC Technology



Executive Gen Smart Load Port

- Auto start-stop for generator
- Max. generator input current 270A



Strong Overload

- 133% continuous overload
- Easily drives inductive loads
- Smooth startup, no tripping or power interruption



Parallel Operation

- Supports up to 6 units in parallel (Off-grid Mode)
- Flexible power expansion for high-power loads
- Stable parallel system, strong scalability



Battery Compatibility

- Compatible with lead-acid, lithium and sodium-ion batteries
- 2 independent battery branches compatible with new & used batteries
- 300A Battery Current



Long Official Warranty

- Standard 5-year warranty
- Industrial-grade design & quality control
- Lower maintenance cost, higher reliability



Value-added Function

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

Model Name	Isuna M75K-TH-S	Isuna M100K-TH-S	Isuna M125K-TH-S	Isuna M150K-TH-S
	Off-grid Output			
Rated Output Power	75kW	100kW	125kW	150kW
Max. Output Power	82.5kVA	110kVA	137.5kVA	166kVA
Rated Output Current	114A@220V	152A@220V	189A@220V	227A@220V
Peak Output Current	228A(100ms)	302A(100ms)	302A(100ms)	302A(100ms)
Rated Voltage	3/N/PE, 220/380V; 230/400V; 277/480V			
Rated Frequency	50/60Hz			
	On-grid Parameter			
Rated Power	75kW	100kW	125kW	150kW
Max. Output Power	82.5kVA	110kVA	137.5kVA	166kVA
Rated Output Current	114A@220V	152A@220V	189A@220V	227A@220V
Rated Voltage	3/N/PE, 220/380V; 230/400V; 277/480V			
Max. Input Current	270A			
Rated Frequency	50/60Hz			
	PV Input			
Max. Installed Power	150kWp	200kWp	250kWp	300kWp
Max. Power	150kWp	200kWp	250kWp	250kWp
Startup Voltage	180V			
Max. Input Voltage	1100V			
MPPT Voltage Range	150-1000V			
Number of MPPTs / Max. Number of Strings	10/20			
Rated Voltage	625V			
Max. Input Current	10*48A			
Short-circuit Current	10*63A(TBD)			
	Battery Parameter			
Battery Type	Lithium-ion/Lead-acid/Sodium-ion			
Battery Channels	2			
Voltage	500-950V			
Max. Current	150A*2			
COMM Interface	CAN*2/RS485*2			
	Generator Parameter			
Max. Input Current	270A			
Max. Input Power	186.3kVA@230V			
Rated Voltage	3/N/PE, 220/380V; 230/400V; 277/480V			
Rated Frequency	50/60Hz			
	Efficiency			
Max. Efficiency	98.8%			
European/CEC Efficiency	98%			
	General Data			
Dimensions(W*H*D)	1244*848*385mm			
Weight	180kg(TBD)			
Topology	Non-isolated			
Operating Temperature	-25°C ~ +60°C			
Operating Humidity	0-100%			
Cooling Type	Intelligent Air Cooling			
IP	IP66			
Max. Operating Altitude	4000m			
COMM Interface	RS485*1, Ethernet/Wi-Fi/4G/Bluetooth, DO*2, DI*2, AI*1, AO*1, DRM*1			
HMI	LCD/WIFI/LAN/4G			
	Certification			
CE-EMC	IEC 62920, IEC 62477-1, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4			
CE-LVD	IEC 62109-1, IEC 62109-2, EN 62109-1, EN 62109-2			
Grid	CEI-016, EN50549, VDE-AR-N 4105(2026)			