



# On/off-grid | Three Phase | High Voltage

Hybrid Inverter

5/6/8/10/12/15/18/20kW

## Product Features

 **Support 100% Three Phase Unbalance**

 **SiC Technology 98.2% Efficiency**

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

 **<10ms On/Off-grid Switchover**

 **6 Units in Parallel (Off-grid Mode)**

 **150-200% PV Input Power**

 **200% Grid Input Power, 58A Grid Input Current Supplying to Loads & Charging Battery in Parallel**

 **Support Altitude 5000m(>3000m Derating)**

 **Support AC Couple**

Model Name	Isuna 5000T	Isuna 6000T	Isuna 8000T	Isuna 10000T	Isuna 12000T	Isuna 15000T	Isuna 18000T	Isuna 20000T
<b>Off-grid Output</b>								
Rated Output Power	5kW	6kW	8kW	10kW	12kW	15kW	18kW	20kW
Peak Power&Duration	10kVA(60s)		11kVA(60s)		13.2kVA(60s)	16.5kVA(60s)	19.8kVA(60s)	22kVA(60s)
Rated Voltage	3/N/PE, 220/380Vac, 230/400Vac							
Rated Frequency	50/60Hz							
Rated Output Current	7.5A	9A	12A	15A	18A	22.5A	27A	30A
Output THDu	<3%							
<b>On-grid Parameter</b>								
Rated Output Power	5kW	6kW	8kW	10kW	12kW	15kW	18kW	20kW
Max. Input Power from Grid	10kW	12kW	16kW	20kW	24kW	30kW	36kW	40kW
Max. Input Current from Grid	15A	18A	24A	29A	35A	44A	52A	58A
Max. Output Current	8A	10A	13A	16A	20A	24A	29A	32A
Rated Grid Voltage	3/N/PE, 220/380V, 230/400V, 240/415V							
Grid Voltage Range	184-276V/320-480V							
<b>PV Input</b>								
Max. Input Power	10000Wp	12000Wp	16000Wp	20000Wp	24000Wp	30000Wp	30000Wp	30000Wp
Max. Input Voltage	1000V							
Number of MPPT	2							
Max. Input String Per MPPT	2							
MPPT Voltage Range	130-960V							
Rated Input Voltage	600V							
Starting Voltage	200V							
Max. Input Current	25A/25A							
Short-Circuit Current	30A/30A							
<b>Battery Parameter</b>								
Battery Type	Lithium-ion/Lead-Acid/Sodium-ion							
Number of Battery Input	2							
Battery Voltage Range	125-800V							
Full Load Battery Voltage Range	125-800V	125-800V	160-800V	210-800V	250-800V	300-800V	360-800V	400-800V
Battery Charging/Discharging Current	25A*2							
Peak Charging/Discharging Current-Duration	35A*2-60s							
<b>Efficiency</b>								
Max. Efficiency	98.20%							
European Efficiency	97.70%							
Max. Battery Charging/Discharging Efficiency	97.80%							
<b>General Data</b>								
Size(W*H*D)	573mm*509mm*219mm							
Weight	35kg							
Noise	<45dB(A)							
Operating Altitude	5000m (>3000m Derating)							
Operating Temperature	-25°C ~ +60°C							
Cooling Method	Intelligent Air Cooling							
Ingress Protection Grade	IP65							
Mornitoring	LED/WIFI/4G/Bluetooth/RS485							
Communication Port	RS485/CAN/DRED/Dry contact/Parallel port							
Protection	DC Switch; AC Overvoltage Protection; AC Overcurrent Protection;AC Short Circuit Protection; Anti-islanding Protection; Residual Current Monitoring; PV Insulation Resistance Detection; Surge Protection:LEVEL II; Reverse Polarity Protection(PV&Battery);Lightning Protection							
<b>Certification</b>								
CE-LVD	IEC 62109-1, IEC 62109-2, EN 62109-1, EN 62109-2, IEC 62477-1							
CE-EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 62920							
Grid	VDE-AR-N 4105, C10-11, G98/G99, CEI 0-21, EN50549, PEA, MEA, IEC 62116, IEC 61727 NRS 097-2-1, AS 4777.2, R25,UNE217001, UNE217002, NTS 2.1, NC RfG							