



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



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 184-276V Grid Voltage Range

Model Name	Isuna 10000TO	Isuna 12000TO	Isuna 15000TO	Isuna 18000TO	Isuna 20000TO
Off-grid Output					
Rated Output Power	10kW	12kW	15kW	18kW	20kW
Peak Power&Duration	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	15A	18A	22.5A	27A	30A
Output THDu	<3%				
Grid Parameter					
Max. Input Power from Grid	20kW	24kW	30kW	36kW	40kW
Max. Input Current from Grid	29A	35A	44A	52A	58A
Rated Grid Voltage	3/N/PE, 220/380V, 230/400V, 240/415V				
Grid Voltage Range	184-276V/320-480V				
PV Input					
Max. Input Power	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				
Battery Parameter					
Battery Type	Lithium-ion/Lead-Acid/Sodium-ion				
Number of Battery Input	2				
Battery Voltage Range	125-800V				
Full Load Battery Voltage Range	210-800V	250-800V	300-800V	360-800V	400-800V
Battery Charging/Discharging Current	25A*2				
Peak Charging/Discharging Current-Duration	35A*2-60s				
Efficiency					
Max. Efficiency	98.20%				
European Efficiency	97.70%				
Max. Battery Charging/Discharging Efficiency	97.80%				
General Data					
Size(W*H*D)	573mm*509mm*219mm				
Weight	35kg				
Noise	<45dB(A)				
Operating Altitude	5000m (>3000m Derating)				
Operating Temperature	-25℃~+60℃				
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				