

Three Phase Hybrid Inverter Load Controller

Higher Reliability

IP65 Outdoor&Indoor use
SiC technology, Longer lifespan
Plug-in design, Easy to install

High Capability

15 units in parallel
2 independent ports for battery
Support mixture use of old & new battery

Auto sleep
VPP interface ready
Cloud + Smart data analysis

Smart Monitoring

UPS function
Flexible DO control
10ms on/off-grid switchover
100% three phase unbalance

Strong Load Adaptability

02 Typical Configuration



Three Phase Datasheet



Model Name	Isuna 10000T	Isuna 12000T	Isuna 15000T	Isuna 20000T
Off-grid Output				
Nominal Output Power	10kW	12kW	15kW	20kW
Nominal Voltage	3/N/PE, 220/380Vac, 230/400Vac			
Nominal Frequency	50/60Hz			
Output THDu	<3%			
Nominal Output Current	15A	18A	22.5A	30A
On-grid Parameter				
Nominal Output Power	10kW	12kW	15kW	20kW
Max. Output Power	11kVA	13.2kVA	16.5kVA	22kVA
Max. Input Power from Grid	20kVA	24kVA	30kVA	40kVA
Max. Input Current from Grid	29A	35A	44A	58A
Max. Output Current	16A	20A	24A	32A
Nominal Grid Voltage	3/N/PE, 220/380V, 230/400V, 240/415V			
Grid Voltage Range	184-276V/320-480V			
PV Input				
Max. Input Power	15000Wp	18000Wp	22500Wp	30000Wp
Max. Input Voltage	1000V			
Number of MPPTs	2			
Max. Input Strings Per MPPT	2			
MPPT Voltage Range	180-960V			
Full Load MPPT Voltage Range	250-850V	290-850V	350-850V	450-850V
Nominal Input Voltage	600V			
Starting Voltage	200V			
Max. Input Current	25A/25A			
Short-Circuit Current	30A/30A			
Battery Parameter				
Battery Type	Lithium-ion			
Number of Battery Input	2			
Battery Voltage Range	180-800V			
Full Load Battery Voltage Range	210-800V	250-800V	300-800V	400-800V
Peak Charging/Discharging Current & Duration	35A/35A(60s)			
Max. Charging/Discharging Current	25A/25A			
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 Temperature Range	-25°C--+60°C			
Cooling Method	Air Cooling			
Ingress Protection Grade	IP65			
Communication Port	RS485/CAN/DRED/Dry contact/Parallel port			
Monitoring	LED/APP/WIFI/4G/Bluetooth			
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			
Certification				
CE_LVD	IEC 62109-1, IEC 62109-2, EN 62109-1, EN 62109-2			
CE EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4			
Grid	VDE-AR-N 4105, C10-11, G98/G99, CEI 0-21, EN50549, NRS 097-2-1, AS 4777.2, R25,UNE217001,UNE217002,NTS 2.1			