



iSuna | 10+ years in storage inverter

Sinexcel

Stock Code:300693



RESIDENTIAL Storage Inverter



Solar+Storage Hybrid Inverter



Single Phase: 3kW-10kW



Three Phase: 5kW-20kW



Wide Range of Power



Strong Battery Voltage Compatibility



VPP Interface Ready

01 Single / Three Phase Hybrid Inverter Load Controller

Higher Reliability

IP65 Outdoor&Indoor use
 Natural cooling, Ultra silence
 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



04 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 | 30A | 35A | 44A | 60A |
| 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 | 160-800V | | | |
| 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(L*W*H) | 577mm*537mm*240mm | | | |
| 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/DO/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, VDE V 0126-1-1,C10-11, C99, CEI 0-21, EN50549, NRS 097-2-1, AS 4777.2, R25,UNE217001,UNE217002,NTS 2.1 | | | |