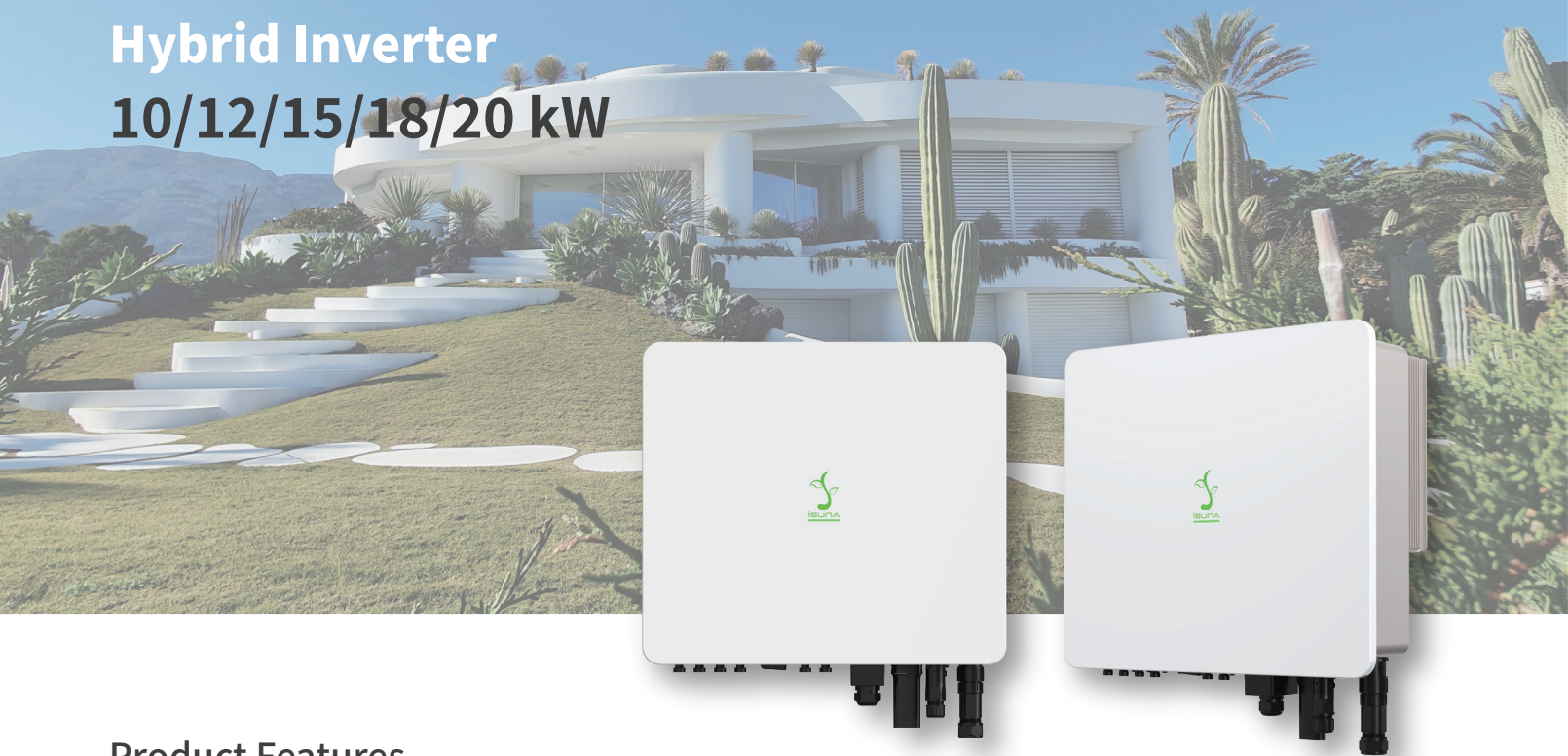


Off-grid | Three Phase | High Voltage

Hybrid Inverter

10/12/15/18/20 kW



Product Features



Wide PV Input

- 150%–200% PV Input Power
- PV Input Current 25A



Robust Grid Input

- 200% Grid Input Power
- 29A-58A Grid Input Current
- Supports simultaneous load power supply and battery charging



High Efficiency

- Silicon Carbide (SiC) Technology
- Max. Conversion Efficiency up to 98.2%



Wide Grid Voltage

- Grid Input Voltage 184-276V/320-480V
- Grid-tied / off-grid switching time < 10 ms
- Suitable for areas with fluctuating mains voltage



Strong Overload

- 100% unbalanced three-phase output
- Unlimited single-phase full-load flexible whole-house load matching



Parallel Operation

- Up to 6-unit parallel operation
- Flexible power expansion for high-power loads
- Stable parallel connection & great expandability



Battery Compatibility

- Compatible with lead-acid, lithium and sodium-ion batteries
- Intelligent charge-discharge strategy matching
- Mixed new/old battery support



Long Official Warranty

- 5-year standard warranty included
- IP65 protection rating
- Stable and durable



Custom-built APP

- Support to add new language for local adaption
- 6 configurable charge/discharge time slots
- Remote firmware upgrade

Model Name	Isuna 10000TO	Isuna 12000TO	Isuna 15000TO	Isuna 18000TO	Isuna 20000TO
	Off-grid Output				
Rated Output Power	10kW	12kW	15kW	18kW	20kW
Rated Output Current	15A	18A	22.7A	27A	30A
Peak Power & Duration	11kVA-60s	13.2kVA-60s	16.5kVA-60s	19.8kVA-60s	22kVA-60s
Rated Voltage&Range	3/N/PE,220V/380Vac,230V/400Vac				
Rated Frequency	50/60Hz				
THDu	<3%				
	Grid Input Parameter				
Max. Grid Input Power	20kVA	24kVA	30kVA	36kVA	40kVA
Max. Grid Input Current	29A	35A	44A	52A	58A
Grid Voltage Range	184-276V/320-480V				
	PV Input				
Rec. Max. Install Pwr.	25kWp	30kWp	37.5kWp	37.5kWp	37.5kWp
Max. Input Power	20kWp	24kWp	30kWp	30kWp	30kWp
Startup Voltage	130V				
Max. Input Voltage	1000V				
MPPT Voltage Range	130-850V				
Number of MPPT	2				
Max. Strings per MPPT	2				
Rated Voltage	600V				
Max. Input Current	25A/25A				
Max. Short-ckt Current	30A/30A				
	Battery Parameter				
Battery Type	Lithium-ion/Lead-acid/Sodium-ion				
Battery Input Channels	2				
Battery Voltage Range	125-800V				
Max. Charge/Discharge Current	25A+25A				
	Efficiency				
Max. Efficiency	98.2%				
European Efficiency	97.7%				
Max. Batt. Chg-Disch. Efficiency	97.8%				
	General Data				
Dimensions(W*H*D)	573*509*219mm				
Weight	35kg				
Noise Level	<45dB(A)				
Operating Temperature	5000m(>3000m Derating)				
Operating Altitude	-25°C~60°C (>40°C Derating)				
Cooling Type	Natural Convection				
IP Rating	IP65				
Comm. Interface	RS485/CAN/DRED/Dry Contact / Parallel Comm.				
HMI Mode	LCD/4G/RS485/WIFI/Bluetooth				
Protection	DC Switch; Overcurrent/Overvoltage Protection; AC Short-circuit Protection; Anti-islanding Protection; Residual Current Detection; Insulation Resistance Detection; Surge Protection (AC: Class II , DC: Class III); Lightning Protection; Reverse-insertion Protection (PV & Battery)				