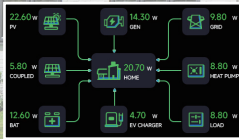


On/Off-grid | Three Phase | Low Voltage

Hybrid Inverter

5/6/8/10/12 kW



Product Features



Wide PV Input

- 166%-400% PV Input Power
- 20A PV Input Current
- 3 MPPT Tracks



Robust Grid Input

- 200%-480% Grid Input Power
- Max. Grid Input Power 24kW
- Supports simultaneous load power supply and battery charging



High Efficiency

- Silicon Carbide (SiC) Technology
- Max. Conversion Efficiency up to 98.2%
- Lower losses, higher power generation for improved energy-use returns



Wide Grid Voltage

- Grid-side voltage 185-276 V



Strong Overload

- 100% unbalanced three-phase output
- Supports 166%-400% overload capability



Parallel Operation

- Up to 6-unit parallel operation (off-grid mode)
- Flexible power expansion for high-power loads
- Supports AFCI and PID functions (optional)



Battery Compatibility

- Compatible with lead-acid, lithium and sodium-ion batteries
- 2 independent battery ports
- Mixed new/old battery support



Long Official Warranty

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



Executive Gen Smart Load Port

- Intelligent generator start-stop control
- Max. generator input current 80A

Model Name	Isuna D5K-TL-S	Isuna D6K-TL-S	Isuna D8K-TL-S	Isuna D10K-TL-S	Isuna D12K-TL-S
	Off-grid Output				
Rated Output Power	5kW	6kW	8kW	10kW	12kW
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Max. Output Current	8.3A	10A	13.3A	16.7A	20A
Peak Power&Duration	20kVA-10s*				
Rated Voltage	3/N/PE, 220/380Vac, 230/400Vac				
Switching Time	<10ms				
	On-grid Parameter				
Rated Output Power	5kW	6kW	8kW	10kW	12kW
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Max. Output Current	8.3A	10A	13.3A	16.7A	20A
Max. Grid Input Power	24kVA				
Thdi	<3%				
Grid Frequency	50/60±5Hz				
	PV Input				
Rec. Max. Install Pwr.	24kWp				
Max. Input Power	20kWp				
Max. Input Voltage	800V				
Number of MPPT	3				
No. of Strings per MPPT	1/1/1				
MPPT Voltage Range	130-800V				
Startup Voltage	140V				
Max. Input Current	20A/20A/20A				
Short-ckt Current	24A/24A/24A				
	Battery Parameter				
Battery Type	Lithium-ion/Lead-acid/Sodium-ion				
No. of Battery Inputs	2				
Battery Voltage Range	30-60V				
Max. Chg-Dischg. Curr.	125A*2				
	Efficiency				
Max. Efficiency	98.2%				
European Efficiency	97.7%				
Max. Batt. Chg-Disch. Efficiency	95%				
	Generator Parameter				
Max. Input Current	15.1A	18.2A	24.3A	30.3A	36.4A
Rated Output Voltage	3/N/PE, 220/380Vac, 230/400Vac				
Voltage Range	185~276V(P2N)				
	General Data				
Dimensions(W*H*D)	465*665*175mm				
Weight	36kg				
Noise Level	<45dB(A)				
Operating Temperature	-25°C~60°C (>45°C Derating)				
Operating Altitude	4000m(>3000m Derating)				
Cooling Type	Intelligent Air Cooling				
IP Rating	IP65				
Battery Topology	Isolation				
Comm. Interface	RS485*1, WIFI/4G Comm. Dongle*1, DO*2, DRM*1				
HMI Mode	H5/LED/APP/WIFI/4G/Bluetooth				
Protection	DC Switch; OC / OV Protection; AC Short-ckt Protection; Anti-islanding Protection; Resid. Current Detection; Insul. Resistance Detection; Surge Protection: DC Type II / AC Type III; Lightning Protection; Reverse-insertion Protection (PV & Batt.); Integrated AFCI (Opt.), PID Recovery Circuit (Opt.)				
	Certification				
CE-LVD	EN IEC 62109-1, EN IEC 62109-2, IEC62040-1, IEC 62477-1, IEC 62477-1/AMD1, EN 62477-1, EN 62477-1/A11, EN 62477-1/A1				
CE-EMC	EN IEC 61000-6-1, EN IEC 61000-6-2, EN IEC 61000-6-3, EN IEC 61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29, EN IEC 61000-3-2:2019+A1:2021+A2:2024 EN 61000-3-3:2013+A1:2019+A2:2021 EN IEC 61000-3-11:2019, EN 61000-3-12:2011+A1:2024				
Grid	VDE-AR-N 4105, VDE 0126-1-1, EN 50549-1, G98, G100, CEI 0-21, AS/NZS4777.2, NRS 097-2-1, G99 C10/11				

* Overload output requires adequate PV and battery energy