

On/off-grid | Three Phase | High Voltage

Hybrid Inverter

5/6/8/10/12kW



Product Features

 **SiC Technology, Max. 98.2% Efficiency**

 **2 Independent Battery Ports for Mixture Use of Old & New Battery**

 **150%-200% PV Input Power, 3 MPPTs, PV Input Current 20A, Higher Compatibility with PV Panel**

 **200-480% Grid Input Power, Max.24kW, Supplying to Loads & Charging Battery in Parallel**

 **166-400% Overload**

 **165mm Ultra-thin, IP65**

 **Executive Generator Port, Smart Monitoring Max.Generator Input Current 36.4A**

 **Compatible with Lead-Acid/Gel/Lithium Battery**

 **6 Units in Parallel (Off-grid Mode) AFCI/PID Function (Optional)**

Model Name	Isuna D5K-TH	Isuna D6K-TH	Isuna D8K-TH	Isuna D10K-TH	Isuna D12K-TH
Off-grid Output					
Rated Output Power	5kW	6kW	8kW	10kW	12kW
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Peak Power & Duration	20kVA(10s)*				
Max. Output Current	8.3A	10A	13.3A	16A	20A
Rated Output Voltage	3/N/PE, 220/380Vac, 230/400Vac				
Switching Time	<10ms				
GEN Max. Current	36.4A				
GEN Voltage Range	185-276V(P2N)				
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	16A	20A
Max. Input Power	24kVA				
Rated Voltage	3/N/PE, 220/380Vac, 230/400Vac				
Grid Voltage range	185-276V(P2N)				
Grid Frequency	50/60±5Hz				
PV Input					
Max. Input Power	18KW				
Max. Input Voltage	1000V				
Number of MPPT	3				
Max. Input String Per MPPT	1/1/1				
MPPT Voltage Range	130-960V				
Starting Voltage	140V				
Max. Input Current	20A/20A/20A				
Short-Circuit Current	24A/24A/24A				
Battery Parameter					
Battery Type	Lithium-ion/Lead-Acid/Sodium-ion				
Number of Battery Input	2				
Battery Voltage Range	125-800V				
Battery Charging/Discharging Current	25A*2				
Efficiency					
Max. Efficiency	98.20%				
European Efficiency	97.70%				
Max. Battery Charging/Discharging Efficiency	97.80%				
General Data					
Size(W*H*D)	400mm*575mm*165mm				
Weight	26kg				
Noise	<45dB(A)				
Operating Temperature	-25°C~+60°C (>45°C Derating)				
Operating Altitude	4000m(>3000m Derating)				
Cooling Method	Intelligent Air Cooling				
Ingress Protection Grade	IP65				
Topology	Non-isolated				
Communication Port	LED/WIFI/4G/Bluetooth/RS485				
Protection	DC Switch; Reverse Polarity Protection; AC Overvoltage/Overcurrent/Short Circuit Protection; Anti-islanding Protection; Residual Current Monitoring; Insulation Resistance Detection; Surge Protection:DC Type II / AC Type III; AFCI(Optional); PID(Optional)				
Certification					
CE-LVD	IEC62109-1&2, IEC62040-1				
CE-EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN 61000-4-16, EN 61000-4-18,EN 61000-4-29				
Grid	VDE-AR-N 4105, VDE 0126-1-1 EN 50549-1, G98, G100, CEI 0-21, AS/NZS4777.2 NRS 097-2-1				

*Overload output is dependent on sufficient PV and battery energy