

Hybrid | Three Phase | High Voltage

5/6/8/10/12kW



Product Features

- 

120% Off-grid Output Overload
- 

SiC Technology
- 

Support OTA Upgrade
- 

165mm Ultra-thin
- 

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

Max. PV Input Current 20A
- 

Independent Generator Port Smart Monitoring
- 

3 MPPTs
- 

AFCI/PID Function

Model Name	Isuna D5K-TH	Isuna D6K-TH	Isuna D8K-TH	Isuna D10K-TH	Isuna D12K-TH
Off-grid Output					
Nominal Output Power	5kW	6kW	8kW	10kW	12kW
Max. Output Current	15A	18A	24A	30A	30A
Peak Power	10kVA	12kVA	16kVA	20kVA	20kVA
Nominal Output Voltage	3/N/PE, 220/380Vac, 230/400Vac				
Generator port	Support				
On-grid Parameter					
Nominal Output Power	5kW	6kW	8kW	10kW	12kW
Max. Output Power	6kW	7.2kW	9.6kW	12kW	14.4kW
Max. Input Power from Grid	10kW	12kW	16kW	20kW	24kW
Nominal Output Current	9A	11A	15A	18A	22A
Max. Input Current from Grid	15A	18A	24A	30A	36.4A
Nominal Voltage	3/N/PE, 220/380Vac, 230/400Vac				
Grid Voltage range	185-276V （P2N）				
PV Input					
Max. Input Power	10000Wp	12000Wp	16000Wp	18000Wp	18000Wp
Max. Input Voltage	1000V				
Number of MPPT	3				
Max. Input String Per MPPT	1/1/1				
MPPT Voltage Range	160-960V				
Nominal Voltage	600V				
Starting Voltage	160V				
Max. Input Current	20A/20A/20A				
Short-Circuit Current	24A/24A/24A				
Battery Parameter					
Battery Type	Lithium-ion/Lead-Acid/Sodium-ion(optional)				
Number of Battery Input	2				
Battery Voltage Range	125-800V				
Battery Charging/Discharging Current	25A*2				
Peak Charging/Discharging Current-Duration	35A*2-60s				
Communication port	RS485/CAN				
Efficiency					
Max. Efficiency	98.20%(TBD)				
European Efficiency	97.70%(TBD)				
Max. Battery Charging/Discharging Efficiency	96.00%(TBD)				
General Data					
Size(W*H*D)	400mm*575mm*165mm(TBD)				
Weight	30kg(TBD)				
Noise	<45dB				
Operating Temperature Range	-25℃~+60℃（>45℃ Derating）				
Cooling Method	Intelligent Air Cooling				
Ingress Protection Grade	IP65				
Mornitoring	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				