

Sinexcel Isuna 5-12kW Three Phase Low Voltage Inverter Datasheet



Uncommon Feature

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| <ol style="list-style-type: none"> 1. SiC Technology 3. AFCI/PID Function 5. 3 MPPT 7. Ultra-thin design 9. Flexible placement | <ol style="list-style-type: none"> 2. Support diesel generator 4. Back-up load bypass 6. Max. PV input current of 20A 8. 2 independent battery port 10. 200% overload off-grid output |
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Model Name	Isuna 5000T-LV	Isuna 8000T-LV	Isuna 10000T-LV	Isuna 12000T-LV
PV Input				
Max. Input Power	7500Wp	12000Wp	15000Wp	18000Wp
Max. Input Voltage	1000V			
Starting Voltage	160V			
MPPT Voltage Range	160V-960V			
Nominal Voltage	600V			
Number of MPPT	3			
Max. Input Strings Per MPPT	1/1/1			
Max. Input Current	20A/20A/20A			
Short-Circuit Current	24A/24A/24A			
Battery Parameter				
Battery Type	Lithium-ion			
Number of Battery Input	2			
Battery Voltage Range	33-60V (TBD)			
Max. Charging/Discharging Current	52.5A/52.5A	85A/85A	105A/105A	125A/125A
Peak Charging/Discharging Current & Duration	55A/55A-60s	90A/90A-60s	110A/110A-60s	130A/130A-60s
Communication Port	RS485/CAN			
On-grid Parameter				
Nominal Output Power	5kW	8kW	10kW	12kW
Max. Output Power	6kW	9.6kW	12kW	14.4kW
Max. Input Power from Grid	10kW	16kW	20kW	24kW
Max. Output Current	9A	15A	18A	22A
Max. Input Current from Grid	15A	24A	30A	36.4A
Nominal Voltage	3/N/PE, 220/380Vac, 230/400Vac			
Grid Voltage Range	185-276V (P2N)			
Thdi	<3%			
Off-grid Output				
Nominal Output Power	5kW	8kW	10kW	12kW
Peak Power & Duration	10kW-60s (10s)	16kW-60s (10s)	20kW-60s (10s)	20kW-60s (10s)
Max. Output Current	15A	24A	30A	30A
Nominal Output Voltage	3/N/PE, 220/380Vac, 230/400Vac			
Thdu	<3%			
Generator Port	Support			
Switching Time	10ms			
Efficiency				
European Efficiency	97.7% (TBD)			
Max. Efficiency	98.2% (TBD)			
Max. Battery	96% (TBD)			
Protection				
DC Switch	yes			
Reverse Polarity Protection	yes			
AC Overvoltage/Overcurrent/Short Circuit Protection	yes			
Anti-islanding Protection	yes			
Residual Current Monitoring	yes			
Insulation Resistance Detection	yes			
Surge Protection	DC Type II / AC Type III			
AFCI	Optional			
PID	Optional			
General Data				
Size(W*H*D)	460*650*165mm			
Weight	TBD			
Noise	<45db			
Operating Temperature Range	-25 °C ~60 °C(>45°C Derating)			
Topology	Isolation			
Cooling Method	Smart Cooling			
Ingress Protection Grade	IP65 (IP66)			
Display	APP+LED			
Monitoring	wifi/4G/bluetooth/RS485			
Parallel	Support			
Warranty	10 years			
Certification				
Grid	VDE-AR-N 4105;VDE 0126-1-1 EN 50549-1;G98,G100; CEI 0-21;AS/NZS4777.2 NRS 097-2-1;			
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			