

Off-grid | Single Phase | Low Voltage

Hybrid Inverter

1.5/2.2/3/4/5/6 kW



Product Features



Wide PV Input

- 125%–250% PV Input Power
- PV Input Current 18-36A



Robust Grid Input

- 200%–400% Grid Input Power
- 30A–60A Grid Input Current
- Supports simultaneous load power supply and battery charging



High Efficiency

- Max. Conversion Efficiency up to 97.5%



Wide Grid Voltage

- 176–264V Supported Grid Voltage
- Suitable for areas with fluctuating mains voltage
- Stable performance under weak-grid conditions



Strong Overload

- Supports 130%–260% continuous overload
- > 200% generator input
- Smooth startup, no tripping & no power interruption



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 batteries
- Intelligent charge-discharge strategy
- Precise protection extends battery life



Long Official Warranty

- 3-year standard warranty included
- Lower maintenance costs
- worry-free operation



Intelligent Silent Cooling

- Intelligent temperature-controlled fan low-noise operation
- Fan off at ≤50% rated output power

Model Name	Isuna O1.5K-SOL-G2	Isuna O2.2K-SOL-G2	Isuna O3K-SOL-G2	Isuna O4K-SOL-G2	Isuna O5K-SOL-G2	Isuna O6K-SOL-G2
	Off-grid Output					
Rated Output Power	1500W	2200W	3000W	4000W	5000W	6000W
Max. Output Power	1650VA	2420VA	3300VA	4400VA	5500VA	6600VA
Rated Output Current	6.8A	10A	13.6A	18.2A	22.7A	27.2A
Output Voltage&Range	220V/230V/240Vac±10%					
Peak Power & Duration	4kVA-10s			8kVA-10s		
	Generator Parameter					
Max. Input Current	30A			60A		
Rated Output Voltage	L/N/PE, 220V/230V/240V					
Voltage Range	165~275V(P2N)					
	Grid Input Parameter					
Max. Load Power	4kW			8kW		
Max. AC Input Current	30A			60A		
Grid Voltage	220V/230V/240Vac					
Grid Frequency Range	45-55Hz/55-65Hz					
Grid Voltage Range	176-264V					
THDi	<3%					
	PV Input					
Rec. Max. Install Pwr.	4690Wp			9375Wp		
Max. Input Power	3750Wp			7500Wp		
Max. Input Current	18A			36A		
Max. Short-ckt Current	22A			44A		
Input Voltage Range	60-500V					
MPPT Voltage Range	60-500V					
Startup Voltage	72V					
Number of MPPT	1					
	Battery Parameter					
Battery Type	Lithium-ion/Lead-acid					
Rated Battery Voltage	48V					
Battery Voltage Range	42-58V					
Charging Curve	3-stage charging					
Max. Disch. Current	62.5A			125A		
Max. Charging Current	50A			100A		
	Efficiency					
Max. Efficiency	97.4%	97.5%	97.5%	97.4%	97.5%	97.5%
European Efficiency	97.2%	97.3%	97.3%	97.2%	97.3%	97.3%
Max. Batt. Chg-Disch. Efficiency	94%					
	General Data					
Dimensions(W*H*D)	315*280*80mm			345*305*98mm		
Weight	5.5kg			7kg		
Noise Level	<40dB(A)					
Operating Temperature	-25℃~60℃ (>40℃ Derating)					
Operating Altitude	4000m (>2000m Derating)					
Cooling Type	Intelligent Air Cooling					
HMI Mode	LCD/LED/APP/WIFI/Bluetooth					
Comm. Interface	CAN+RS485					
Protection	Overcurrent / Overvoltage Protection; AC Short-circuit Protection; Overtemperature Protection					
Parallel Quantity	6					
IP Rating	IP20					
	Certification					
CE-EMC	EN 61000-6-1, EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019, EN IEC 61000-3-2:2019+A1:2021 +A2:2024 EN 61000-3-3:2013+A1:2019 +A2:2021					
CE-LVD	EN 62109-2:2011, EN 62109-1:2010					