

On/Off-grid | Single Phase | Low Voltage

Hybrid Inverter

4/5/6 kW



Product Features



Wide PV Input

- 125%-187% PV Input Power
- 36A PV Input Current



Robust Grid Input

- 220%-330% Grid Input Power
- Grid Input Current 60A
- Supports simultaneous load power supply and battery charging



High Efficiency

- Silicon Carbide (SiC) Technology
- Max. Conversion Efficiency up to 97.5%
- Lower losses, higher power generation for improved energy-use returns



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%-200% continuous overload
- Smooth startup, no tripping & no power interruption



Parallel Operation

- Up to 6-unit parallel operation
- Flexible power expansion for high-power loads
- Compact size, easier installation



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 $\leq 50\%$ rated output power

Model Name	Isuna O4K-SL-G2	Isuna O5K-SL-G2	Isuna O6K-SL-G2
	Off-grid Output		
Rated Output Power	4000W	5000W	6000W
Max. Output Power	4400VA	5500VA	6600VA
Rated Output Current	18.2A	22.7A	27.2A
Output Voltage&Range	220V/230V/240Vac±10%		
Peak Power&Duration	8kVA-10s		
	On-grid Parameter		
Max. Load Power	8kW		
Max. AC Input Current	60A		
Max. Output Power	4000VA	5000VA	6000VA
Rated Output Current	18.2A	22.7A	27.2A
Rated Voltage	220V/230V/240Vac		
Grid Frequency Range	45-55Hz/55-65Hz		
Grid Voltage Range	176-264V		
THDi	<3%		
	PV Input		
Rec. Max. Install Pwr.	9375Wp		
Max. Input Power	7500Wp		
Max. Input Current	36A		
Max. Short-ckt Current	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	125A		
Max. Charging Current	100A		
	Generator Parameter		
Max. Input Current	60A		
Rated Output Voltage	L/N/PE, 220V/230V/240V		
Voltage Range	165~275V		
	Efficiency		
Max. Efficiency	97.4%	97.5%	97.5%
European Efficiency	97.2%	97.3%	97.3%
Max. Batt. Chg-Disch. Efficiency	94%		
	General Data		
Dimensions(W*H*D)	345*305*98mm		
Weight	7kg		
Noise Level	<40dB(A)		
Operating Temperature	-25°C ~ +60°C (>40°C Derating)		
Operating Altitude	4000m (>2000m Derating)		
Cooling Type	Intelligent Air Cooling		
HMI Mode	LCD/LED/APP/WIFI/Bluetooth		
Comm. Interface	CAN+RS485		
Protection	Over-current / Over-voltage Protection; AC Short-circuit Protection; Over-temperature 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		