



OPTIMUS ON-LINE HYBRID INVERTER SERIES 10KW OP-10K-UP-0

Revolutionizing Energy Efficiency with Flexibility and Reliability

The Optimus On-Line Series Hybrid Inverter (OP-10K-UP-O) sets new standards in energy management, enabling smarter energy usage and ensuring peak performance. Designed for modern households, it offers advanced features like scheduled energy redistribution and a robust, weather-resistant design.

Key Features

Smart Energy Scheduling

- **Sell Energy Back to the Grid:** The Optimus UP Series allows you to schedule energy redistribution back to the grid during peak hours when electricity costs are highest, ensuring maximum savings and profits.
- **Affordable Energy Storage:** Charge and store energy during off-peak times when electricity costs are lowest, providing significant cost efficiency and reducing grid reliance.

Outdoor-Friendly Design

- **IP65-Rated Protection:** The inverter features an IP65-rated enclosure, making it resistant to dust and water, ensuring reliable operation in outdoor environments.
- **Versatile Placement:** Ideal for installation on outer walls, optimizing space usage while maintaining easy access for maintenance.

Cutting-Edge Efficiency

- **99.9% MPPT Efficiency:** Leverage advanced Maximum Power Point Tracking (MPPT) technology to extract maximum energy from your solar panels.
- **High-Powered Solar Input:** Supports up to 5,500W + 5,500W PV array power with dual MPPT trackers.

Seamless Battery Integration

- Compatible with Li-ion, Lead-acid, and user-defined batteries, supporting up to 200A charging current for rapid and efficient storage.

Scalable and Flexible

- **Parallel Connection:** Connect up to 6 units to meet growing energy demands, perfect for both residential and commercial applications.
- **Pure Sine Wave Output:** Delivers stable and high-quality AC power, ensuring compatibility with all sensitive electronics.

Reliable Performance

- **Robust Build:** Operates efficiently across a wide temperature range (-10°C to 55°C) and features advanced cooling with an internal fan.
- **Certified Safety:** Meets all major safety standards, including IEC62109-1, UL1741, and RoHS, ensuring long-term safety and durability.



Why Choose the Optimus UP Series Hybrid Inverter?

- **Unparalleled Cost Efficiency:** Maximize savings with peak-valley time-slot scheduling, using energy when it's cheapest and selling surplus power during high-demand periods.
- **Reliable and Resilient:** With an IP65 enclosure, this inverter is built to withstand outdoor elements, offering long-lasting and dependable performance.
- **Smart, Scalable Solutions:** Designed to adapt to your needs, from single-unit setups to parallel connections supporting large-scale energy systems.
- **Eco-Friendly Investment:** Reduce your carbon footprint with an intelligent, sustainable energy system that enhances your property's value.

MODEL	OP-10K-UP-O	Can Be Set
INVERTER OUTPUT		
Rated Output Power	10,000W	
Max. Peak Power	20,000VA	
Rated Output Voltage	120/240Vac, single-phase / split-phase / three-phase(parallel)	✓
Load Capacity of Motors	6HP	
Rated AC Frequency	50/60Hz	
BATTERY		
Battery Type	Lead-acid / Li-ion / User-defined	✓
Rated Battery Voltage	48V	
Max. PV Charging Current	200A	✓
Max. Mains Charging Current	120A	✓
Max. Alternator Charging Current	60A	
Max. Hybrid Charging Current	200A	✓
PV INPUT		
Num. of MPPT	2	
Max. PV Array Power	6,600W+6,600W	
Max. Input Current	22A+22A	
Max. Open-circuit Voltage	500Vdc+500Vdc	
MPPT Operating Voltage Range	125~425Vdc	
MAINS / GENERATOR INPUT		
Input Voltage Range	90~140Vac	✓
Frequency Range	50/60Hz	
GENERAL		
Num. of Parallel	1~6 units	
Dimensions	750*440*240mm (2.46*1.44*0.79ft)	
Weight	42kg (92.59lb)	
Protection Degree	IP65	
Operating Temperature Range	-25~60℃, >45℃ derated	
Cooling Method	Intelligent air-cooling	
Warranty	5 years	
COMMUNICATION		
Embedded Interfaces	RS485 / CAN / USB / Dry contact	✓
External Modules (optional)	Wi-Fi / GPRS	
CERTIFICATION		
Safety	IEC62109-1, IEC62109-2	
Rohs	Yes	

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