

OFTOB ENERGY — SK Series (48V Hybrid High-Power)



Key Advantages of the SK Series

- High-voltage MPPT 120–500 V
- Efficiency up to 97%
- Hybrid operation mode: PV + Battery + Grid
- Fast transfer time (UPS-mode)
- Parallel operation (up to 6 units*)
- Smart temperature-controlled cooling system
- Supports LiFePO₄, GEL, AGM, Lead-Carbon batteries
- Wi-Fi / RS485 / CAN / Modbus communication
- Compatible with all types of solar power systems

Product Line — OFTOB ENERGY SK Series (48V Hybrid High-Power)

◆ OE-I/SK 5k-48V 5 kW Hybrid Inverter, 48 V

High-voltage MPPT design. Ideal for homes and small commercial loads.

◆ OE-I/SK 6k-48V 6 kW Hybrid Inverter, 48 V

Enhanced version with higher PV input capacity (up to ~7000 W).

◆ OE-I/SK 8k-48V 8 kW Hybrid Inverter, 48 V

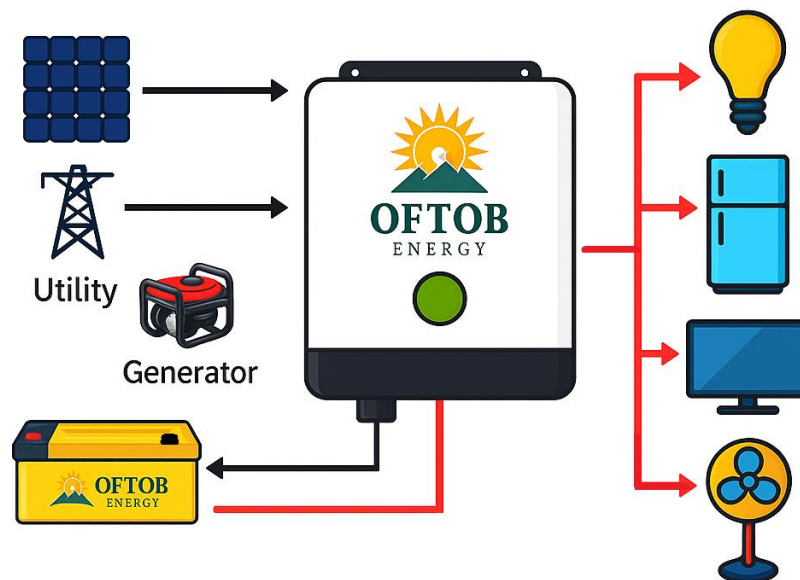
Perfect for large homes, offices, workshops, and medium-size businesses.

◆ OE-I/SK 10k-48V 10 kW Hybrid Inverter, 48 V

Top of the SK Series. Suitable for heavy loads, refrigeration units, car services, and high-demand applications.

◆ OE-I/SK 12k-48V 12 kW Hybrid Inverter, 48 V

Highest-capacity model of the SK Series. Designed for large facilities, supermarkets, pump stations, industrial workshops, and demanding continuous-load environments.





OFTOB ENERGY SK Series – Technical Specifications (5kW / 6kW / 8kW / 10kW / 12kW)

Parameter	5kW	6kW	8kW	10kW	12kW
Inverter Output					
Rated Output Power	5000W	6000W	8000W	10000W	12000W
Max. Peak Power	10000W	12000W	16000W	20000W	24000W
Rated Output Voltage	230V single-phase / three-phase when paralleled				
Motor Load Capacity	4.8HP	4.8HP	5HP	6HP	6HP
Rated Frequency	50/60Hz				
Waveform	Pure Sine Wave				
Transfer Time	10ms (typical value). The maximum value is 20ms for single unit and 30ms for parallel operation				
Parallel Units	6				
Battery					
Battery Type	Lithium-ion / Lead-acid				
Rated Battery Voltage	48V				
Battery Voltage Range	40–60V				
Max PV Charging Current	120A	120A	180A	200A	220A
Max Grid/Generator Charging Current	100A	100A	100A	120A	140A
Max Mixed Charging Current	120A	120A	180A	200A	220A
PV Input					
MPPT Channels	1	1	2	2	2
Maximum PV Input Power	7500W	9000W	7500+7500W	7500+7500W	9000+9000W
Max PV Input Current	27A	27A	22A+22A	22A+22A	22A+22A
Max Open-circuit Voltage	500V	500V	500V+500V	500V+500V	500V+500V
MPPT Voltage Range	125–425V				
Utility / Generator Input					
Input Voltage Range	170–280V±7V (UPS) / 90–280V±7V (APL)				
Input Frequency Range	50/60Hz				
Bypass Overload Current	40A	40A	63A	63A	63A





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Parameter	5kW	6kW	8kW	10kW	12kW
Efficiency					
MPPT Tracking Efficiency	99.90%				
Battery Inverter Max Efficiency	93%				
Universal					
Dimensions	472×375×119.5 mm	472×375×119.5 mm	450×620×142 mm	450×620×142 mm	450×620×142 mm
Weight	13.5kg	13.5kg	27kg	27kg	27kg
Protection Level	IP20 / IP54				
Operating Temp	-10...55°C				
Noise	≤45dB				
Cooling	Intelligent air cooling				
Communication	RS485 / CAN / GPRS / WIFI / Bluetooth / 4G / LAN (Optional)				
Certification	IEC62109-1 / IEC62109-2 / EN61326-1:2013				



Supports up to 6 units in parallel



Beautiful appearance, simple installation, practical and convenient



The MPPT tracking efficiency reach 99.9%



It has comprehensive security protection from software to hardware



Dushanbe, R. Nabieva 353



(+992) 911-35-35-75



oftob.energy@gmail.com



oftob-energy.com