



THK-EU Series

- Off-Grid Solar Low-Voltage Inverter

Product Highlights:

- High-Efficiency Inverter: Peak efficiency up to 94%, maximizing solar energy conversion.
- Battery Compatibility: Supports lithium, lead-acid, or battery-free operation.
- Maximum PV Input: Handles up to 6kW solar array.
- Fast Switching: <10ms seamless backup power transfer.
- Bidirectional Soft Start: Extends the lifespan of both battery and inverter.
- Safe & Reliable: Comprehensive protection features



1.2/3/5KW

Specification

Model	THK-1.2KS12P	THK-3KS24P	THK-5KS48P
AC Input			
Rated Voltage	208 / 220 / 230 / 240 V a.c., L+N+PE		
Rated Frequency	50 Hz / 60 Hz		
Current(Maximum Continuous)	10 A	20 A	40 A
Battery Input			
Battery Type	Lithium or lead acid battery		
Rated Battery Voltage	12V	24V	48V
Max. Charge Voltage	15V	30.2V	60V
Max. Charge Current	120A	100A	80A
PV Input			
Max. PV Input Power	1000W	5000W	6000W
Max. PV Input Voltage	125V	500V	
Max. PV Input Current	14A	18A	
MPPT Operating Voltage Range	20~100V	40~450V	120~430V
Max. PV Charge Current	60A	100A	80A
MPPT Number	1	1	2
ISC PV	16A	22A	22A
Output Parameters-Off Grid			
Rated Power	1200W	3600W	5000W
Rated Output Voltage	208/ 220/230/240V (±5%) L+N+PE		
Rated Output Frequency	50/60Hz (±0.1%)		
Switch Time	10 ms for computer equipment, 10 ms for household loads.		
Current Max.	10A	15.6A	22.7A
Protection			
Protection	Overload, Over temperature, Short circuit		
Basic Data			
Operation Temperature	-10℃ ~ +60℃		
Storage Temperature	-10℃ ~ +50℃		
Relative Humidity	5% ~ 95% (Non-condensing)		
Working Altitude	4000 m (>1000 m, Derating)		
Communication	RS485 / CAN / Dry Contact / WiFi (Optional)		
Noise	<50		
Size	330*228*90mm	335*470*125mm	335*470*125mm
Parallel Connection	NO	NO	YES