



Off-Grid Solar Storage Inverter

TVI3000-24、TVI5000-48



High Efficiency

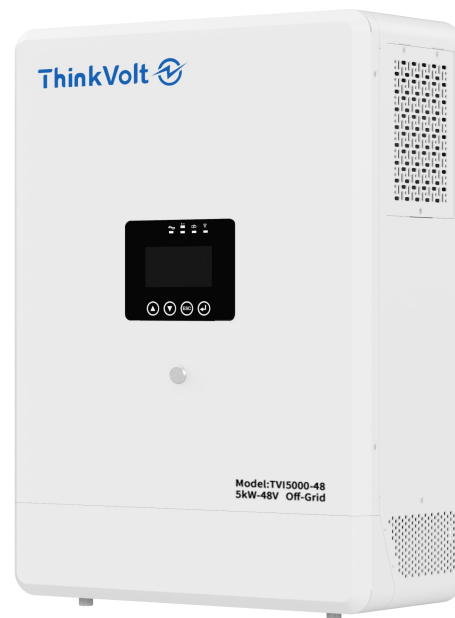
- High power density, low cost
- Typical switch time is 10ms in UPS mode
- High charge and discharge efficiency
- Compatible with lead-acid and lithium batteries

User Friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use Installation

High Security

- Support lithium battery activation wake-up function
- Protection: Over temperature, Overload, Overvoltage, Overcurrent, Shortcircuit protection





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Model	TVI3000-24	TVI5000-48
AC Input		
Rated Input Voltage (VAC)	208/220/230/240; L+N+PE	
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)	
Frequency (Hz)	40~70 (Default)	
AC Output		
Rated Capacity (kW)	3	5
Voltage Regulation	≤5%	
Rated Voltage (VAC)	208/220/230/240; L+N+PE	
Power Factor (PF)	1	
Frequency	Line Mode: Synchronized range, Battery Mode: 50/60Hz±0.1%	
Transfer Time (ms)	10ms (Typical)	
Harmonic Distortion	≤3%(Linear Load), ≤5%(Non-linear Load PF=0.7)	
Overload Capacity (Battery Mode)	60s@102%~110%load;10s@110%~130%load; 3s@130%~150%load;0.2s@>150%load	
Max. Efficiency (Battery Mode)	93.5%@24VDC	94%@48VDC
Parallel	Nonsupport	Nonsupport
Charger (PV/AC)		
Solar Charger Type	MPPT	
Max PV input power (W)	4000	6000
PV Voltage Accuracy	±2V	
MPPT tracking range (VDC)	120~430	
Efficiency	99.5 MAX	
Max PV voltage (VDC)	500	
Max PV current (A)	120	80
Charger (AC Mode)		
Max AC Charge Current (A)	120	80
Charging voltage (VDC)	Settable:28~29V	Settable:56~58V
Battery		
Battery type	Lithium-ion/VRDA/Custom	
Battery over Voltage Protection (VDC)	32	61
Battery under Voltage Protection(VDC)	21	42
Over current protection	Fuse(Fast acting)	
Interface		
HMI	LCD	
Interface	RS232/USB	
Monitoring	/	WiFi (Optional)
General Data		
Ingress Protection	IP20	
Operating Temperature	0°C~50°C	
Relative Humidity	20%~95% (Non-condensing)	
Storage Temperature	-15°C~60°C	
Net Weight (kg)	15.5	16
Dimensions (W*D*H)	315*460*139mm	
Max.Operating Altitude	4000m (Derating above 1000m)	
Noise Emission	≤50dB	