

Off-Grid Solar Storage Inverter



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



High Security

Support lithium battery activation wake-up function Protection:Over Temperature,Over load,Over voltage,Over current,Short circuit protection



User Friendly

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

Specifications

Model	TVI3000-24		TVI5000-48
AC Input			
Rate 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%		
Rate 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	
Prallel	Nonsupport	Support	
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/VRLA/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	0~50°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		