

## **PVT8-12K-TR Series**

# **Hybrid Solar Charge Inverter**

Full digital voltage and current double closed loop control, advanced SPWM technology, output of pure sine wave, support split-phase and single-phase pure sine wave output.

#### Main features

#### **Efficient**

Dual MPPT with up to 99.9% efficiency.
Up to 22A PV input current perfect for high power modules.

### Reliable

Outputs high quality pure sine wave AC power 8-12kW load power to meet the needs of most households

# **User-friendly**

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

# Safety

360 degrees of security from hardware to software EU and North American safety approvals

#### All-in-one

Solar Charger Controller up to 200A charging current Support for LiFePO4 battery BMS communication

# Intelligent

Exclusive Li-ion battery BMS dual activation

Time-slot function to save cost with peak-valley tariff

It has the function of sectional charge and discharge

(can set the time period for battery charging or discharging).



#### **PROTECTION**

Has PV input current limiting protection. PV input over-voltage. PV night reverse current protection. AC input over-voltage protection. Battery over-voltage protection. Battery under-voltage Protection. Battery over-current protection. AC output short-circuit protection. Heat sink over-temperature protection. Inverter over-load protection.



# Datasheet

MODEL	PVT8K-48-TR	PVT10K-48-TR	PVT12K-48-TR
INVERTER OUTPUT			
Parallel capacity	YES,6 units		
Rated Output Power	8,000W	1,0000W	1,2000W
Max. Peak Power	1,6000W	2,0000W	2,4000W
Rated Output Voltage	380/400Vac(three-phase)		
Load Capacity of Motors	5HP	6HP	7HP
Rated AC Frequency	50/60Hz		
Conversion time	10ms (typical)		
Waveform	Pure Sine Wave		
Output Mode	Off-Grid (default) / Hybrid		
BATTERY			
Battery Type	LiFePO4 / Lead-Acid / User Defined		
Rated Battery Voltage	48VDC		
Voltage Range	40∼60Vdc		
Max.PV Charging Current	180A	220A	260A
Max.AC Charging Current	100A	120A	120A
Max.AC+PV Charging Current	180A	220A	260A
PV INPUT			
Number of MPP Trackers	Dual MPPT		
Max.PV array power	6000Wx2	7500Wx2	9000Wx2
Max.input current	44A (22Ax2)		
Max.Voltage of Open Circuit	800Vdc		
MPPT Voltage Range	200∼650Vdc		
AC INPUT			
Input Voltage Range	Phase voltage 170~280V, Line voltage 305~485V		
Frequency Range	50Hz(47Hz~55Hz); 60Hz(57Hz~65Hz);		
Bypass Overload Current	63A	63A	80A
EFFICIENCY			•
MPPT Tracking Efficiency	99.9%		
Max.Battery Inverter Efficiency	92%		
COMMUNICATION			
Embedded Interfaces	RS485 / CAN / USB / Dry contact		
External Modules (Optional)	Wi-Fi / GPRS		
GENERAL			
Protection Degree	IP20, Indoor Only		
Operating Temperature Range	-15~55 $^{\circ}$ C,>45 $^{\circ}$ C derating. (5~131 $^{\circ}$ F , >113 $^{\circ}$ F derating.)		
Noise	<60dB		
Cooling Method	Internal Fan		
Dimensions	652*470.5*142mm(2.14*1.54*0.47ft)		
Net Weight	26.8kg (59.1lb)	26.8kg (59.1lb)	
STANDARD		CE	