TECHMA®
TECHNOLOGY

TCM-3022P / TCM-3022PN

Off-Grid Solar Panel Hybrid Inverter

Equipped with TCM-3022P / TCM-3022PN solar charge controller to maximize and regulate DC power from the solar array for the charging the battery bank. Transformer-less design provides reliable power conversion in compact size and with high efficiency. With aluminum housing ,integrated interface system. It' s light and handy ,making installation easier. It's the ideal inverters for small PV plants, or individually for small houses both indoors and outdoors.

Features

- Pure sine wave inverter
- Built- in PWM solar charge controller
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function

Distributed by

Technicable Data

MODEL	TCM-3022P	TCM-3022PN
Reted Power	3000VA/2400W	3000VA/3000W
Parallel Capacity	No	
INPUT		
voltage 230VAC	230VAC	
Selectable Voltage Range	170-280VAC (for personal computers) 90-280VAC (for home appliances)	
Frequency range	50Hz/60Hz (auto sensing)	
OUTPUT		
AC voltage regulation(Batt.mode)	230VAC ±5%	
Surge power (5 seconds)	6000VA	
Efficiency (peak)	93%	
Transfer Time	10ms(for personal computers) 20ms (for home appliances)	
Waveform	Pure Sine Wave	
BATTERY& AC CHARGER		
Battery Voltage	24VDC	
Floating Charge Voltage	27VDC	
Overcharge Protection	31VDC / 33VDC	
Max. AC charge curren	25A	
MAX PV array power	1200W	
Maximum Pv Array Open Circuit Voltage	80VDC	
Max.Solarcharge current	50A	
Max.Total charge current	70A	
Maximum Efficiency	98%	
Standby Power Consumpsion	2W	
PHYSICAL & OPERATING ENVIRONMENT		
Dimension, D*W*H(mm)	100*272*385	
Net weight (kgs)	7KG	
Humidity	5%-95% relative humidity (non- condensing)	
Operating Temperature	0°C -55°C	
Storage Temperature	- 15°C -60°C	

Approximate Back-Up Time Table:

MODEL	Load (VA)	Backup Time @12VDC 100Ah(min)	Backup Time @12VDC 200Ah(min)
1KVA	200	766	1610
	600	198	503
	1000	112	269

MODEL	Load (VA)	Backup Time @24VDC 100Ah(min)	Backup Time @24VDC 200Ah(min)
3KVA	300	449	1100
	1500	68	164
	3000	28	67

STRUCTURE of SOLAR POWER SYSTEM