TECHMA®
TECHNOLOGY

TCM-5032PN

5000VA/4000W Off-Grid Solar Panel Hybrid Inverter

Equipped with TCM-5032PN 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

Related Power	5000VA / 4000W
Parallel Capacity	Yes, 9 pcs
INPUT	
voltage	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)	10000VA
Efficiency (peak)	93%
Transfer Time	10ms(for personal computers) 20ms (for home appliances)
Waveform	Pure Sine Wave
BATTERY& AC CHARGER	
Battery Voltage	48VDC
Floating Charge Voltage	54VDC
Overcharge Protection	60VDC
Max. AC charge curren	60A
MAX PV array power	2400W
Maximum Pv Array Open Circuit Voltage	105VDC
Max. Solar charge current	50A
Max. Total charge current	110A
Maximum Efficiency	98%
Standby Power Consumption	2W
PHYSICAL & OPERATING ENVIRONMENT	
Dimension, D*W*H(mm)	100*300*440
Net weight (kgs)	5KG
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