

High Frequency Solar Inverter

PWM Series

Equipped with PWM 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:

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

Technical Specifications:

Model No.		1012M
Rated power		1000VA/ 1000W
Parallel Capacity		No.
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)	2000VA
	efficiency (peak)	90%
	transfer time	20ms (for home appliances)
	waveform	pure sine wave
Battery & AC charger	battery voltage	12VDC
	floating charge voltage	13.5VDC
	overcharge protection	16VDC
	Max. AC charge curren	20A
	MAX PV array power	500W
	Maximum PV array open circuit voltage	102VDC 17-80VDC
	Max.Solarcharge current	MPPT 40A
	Max.Total charge current	60A
	maximum efficiency	98%
	standby power consupsion	2W
Physical	Dimension, D*W*H(mm)	88*225*320
	Net weight (kgs)	5KG
operating Environment	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