

MARVEL

S E R I E S

1.5 KVA 2.8 KVA

SOLAR HYBRID INVERTER

KEY SALIENT FEATURES

- ✓ Simulated sine wave 90%
- ✓ Built in solar charge controller 60AMP
- ✓ Battery equalization
- ✓ Hybrid settings functional with 3 buttons
- ✓ Boosted buck charging with (AVR) Voltage operate 95 volts 285 volts
- ✓ Reverse polarity protection
- ✓ Automatic Line-to-battery switch over Selectable input voltage ranges
- ✓ Rack design and wall-Mounted design for flexible installation
- ✓ Provides overload protection
- ✓ Auto restart while AC recovery
- ✓ Multi-function LED/LCD indications and buzzer alarms
- ✓ High efficient DC-to-AC conversion minimizing energy loss
- ✓ Intelligent 4-stage charger for efficient charging and preventing overcharge Cost-effective as compare to generator multiple protection: Low battery alarm, Low battery shutdown, Over charge voltage shutdown.
- ✓ Overload alarm, Overload shutdown, Over temperature shutdown, Short circuit shutdown
- ✓ Conformal coating to prevent from dust and humidity



MODEL	MARVEL 1.5 KVA HYBRID	MARVEL 2.8 KVA HYBRID
Rated Power	1500VA / 1050W	2800VA / 1820W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers) : 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto Sensing)	
OUTPUT		
AC Voltage Regulation (Batt.Mode)	230VAC+/-5%	
Overload (Line mode)	Load > 110% +/- 15% Alarm 5 mins then fault if user decrease the load <100% rating, the overload alarm can release. Load >130% +/- 15% fault immediately	
Surge Power		
Efficiency(Peak)	90% ~ 93%	
Transfer Time	10 ms (for Personal Computers) : 20 ms (for Home Appliances)	
Wave form	Simulated Sine Wave	
BATTERY		
Battery Voltage	12 VDC	13.5 VDC
Floating Charge Voltage	16 VDC	24 VDC
Overcharge Protection	27VDC	31 VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	Semi MPPT	
Maximum PV Array Open Circuit Voltage	55VDC	
Maximum PV Array Power	1000W	1500W
MPPT Range @ Operating Voltage	15-55 VDC	30-55VDC
Maximum Solar Charge Current	60A	
Maximum AC Charge Current	20A	
Maximum Charge Current	80 A	
ALARM		
PHYSICAL		
Dimension.D*W*H(mm)		
Net Weight (kgs)		
Communication Interface		
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity (Non-Condensing)	
Operating Temperature	-10 C to 50 C	
Storage Temperaturea	-15 C to 50 C	

Note: Product specifications are subject to change without further notice

Certification

