magneto™
RENEWABLE ENERGY

Hybrid Inverters

Smart Energy Management

Safe | Reliable | User-friendly



Models: IMI220 - 24V 3kW Inverter
IMI221 - 48V 5kW Inverter

Why use an Hybrid Inverter?

The Magneto inverter is a high-performance, fully automated transformer based solar inverter with hybrid capability. A compact single-phase energy management solution.

Energy independence for peace of mind

An Inverter's function is to convert DC (Direct Current) generated from PV (Photo Voltaic) into usable AC (Alternating Current).

The Magneto Inverter uses Solar generation to produce pure sign wave AC, and by making use of battery backup, the automated system will supply, store and distribute electricity efficiently according to your needs.

- Pure sine wave
- Compatible to AC Mains or generator power
- Auto-restart during AC recovery
- Overload and short-circuit protection
- Cold Start function
- LCD screen display
- Built-in anti-dust filter

Power For Peace Of Mind

Off-Grid Inverters

MODEL	IMI220 - 24V 3kW Inverter	IMI221 - 48V 5kW Inverter
Rated Power	**3000VA/3000W**	**5000VA/5000W**
Parallel Capacity	**N/A**	
INPUT		
Voltage	230 VAC	
AC Input Voltage	173VAC - 288VAC	
Frequency Range	50Hz ± 5Hz	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC ± 3%	
Peak Power	3000W	5000W
Efficiency (Peak)	90%	
Switch Time	5 ms (For personal Computer) - 20 ms (For Home Applications)	
Waveform	Pur Sine Wave	
BATTERY		
Battery Voltage	24 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC
Overcharge Protection	34 V	68 VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	**MPPT**	**MPPT**
Maximum PV Array Open Circuit Voltage	150V DC	150V DC
Maximum PV Array Power	1680W	4480W
Solar Input Operating Voltage	32V ~ 144V	64V ~ 144V
Maxmum Solar Charge Current	60A	80A
Maximum AC Charge Current	35A	35A
PHYSICAL		
Dimension - D x W x H (mm)	139 x 326 x 538	193 x 363 x 596
Net Weight (kgs)	24	31
Communication Interface	RS-485 (For WIFI dongle provided)	
OPERATING ENVIRONMENT		
Humidity	0 - 95% (No Condensation)	
Operating Temperature	0C to 55C	