

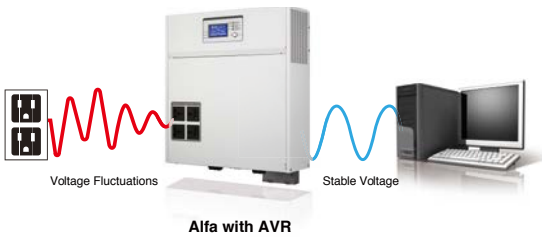
# Alfa Off-Grid Inverter

OFF-GRID INVERTER



**• Boost and buck AVR**

An inverter with built-in AVR provides clean and stable power by correcting the voltages which are under or over the average. Without the correction, the unstable voltage may cause damage to your precious electronic devices.



**• Flexible mechanical design**

The independent design of LCD panel allows the users to place the inverter on a table or on a wall.



**• Built-in solar charger**

Alfa series offers two kinds of solar charger: PWM and MPPT solar chargers.

Model	Solar charger Type	Main feature
Alfa-P	PWM	Cost effectiveness
Alfa-M	MPPT	High efficiency

**• Suitable for home appliances and personal computers**

Alfa inverter is designed to configure input voltage range to suit different appliances from electronic devices to sensitive computers.



**• User-configurable setting via LCD panel**

Alfa is designed to offer high flexibility for different operation. Via LCD interface, users can configure AC/solar charging priority, battery charging current, and acceptable input voltage range.



**• Intelligent communication**

Alfa offers intelligent slot perfect for SNMP or USB/RS-232 serial card. Integrated with monitoring software, it provides a smart monitoring system.

**• Compatible with mains voltage or generator power**

Alfa series can be connected to utility or generator and is a best choice for areas where utility is not available.

## Alfa Off-Grid Inverter Selection Guide

MODEL	Alfa-P3000-24	Alfa-M3000-24	Alfa-P5000-48	Alfa-M5000-48
Rated Power	3000VA/2400W		5000VA/4000W	
<b>INPUT</b>				
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)			
<b>OUTPUT</b>				
AC Voltage Regulation (Batt. Mode)	230VAC $\pm$ 5%			
AC Voltage Regulation (AVR Mode)	230VAC $\pm$ 10%			
Surge Power	6000VA		10000VA	
Efficiency (Peak)	90% ~ 93%			
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)			
Waveform	Pure sine wave			
<b>BATTERY</b>				
Battery Voltage	24VDC		48VDC	
Floating Charge Voltage	27VDC		54VDC	
Overcharge Protection	32VDC		60VDC	
<b>SOLAR CHARGER &amp; AC CHARGER</b>				
Solar Charger type	PWM	MPPT	PWM	MPPT
Maximum PV Array Open Circuit Voltage	75VDC	100VDC	105VDC	145VDC
Maximum Solar Charge Current	50A	40A	50A	80A
Maximum AC Charge Current	30 A		60 A	
Maximum Charge Current	80A	70A	110A	140A
<b>PHYSICAL</b>				
Dimension, D x W x H (mm)	340 x 380 x 88		420 x 397 x 120	
Net Weight (kgs)	12	13	16	17
<b>ENVIRONMENT</b>				
Humidity	5% to 95% Relative Humidity (Non-condensing)			
Operating Temperature	-10°C to 55°C			
Storage Temperature	-15°C to 60°C			

Product specifications are subject to change without further notice.