


# MODIFIED SINEWAVE INVERTERS

## CA SERIES Standard Modified Sinewave Inverter with built-in 3-way charger 550W - 2500W 12V DC Input

 The A Series modified sinewave Inverters with a built-in battery charger are suitable for most loads and provide an economical way to get instant AC power anywhere and at anytime as long as a battery is handy.

The inverter converts a DC power source (e.g. from a car, truck, boat or standard battery; or solar panels) to 230 VAC power. The inverter range is specifically suitable for solar installations. High frequency PWM technology ensures a compact unit providing high reliability and performance.

The inverter has a robust design and is quiet and portable. It can therefore be operated in almost any environment. The unit has a high current start up capability, protected against short circuit, reverse polarity and over load. The Inverter also incorporates a 3 stage PWM battery charger. If AC is present the build-in battery charger will recharge your lead acid or lead calcium battery within a few hours.

### □ Applications :

Lights, computerised instruments, emergency power, computers, TV sets, radios, satellite receivers, etc.

### □ Features:

- AVR design
- Input & Output isolated
- Auto temperature controlled fan
- Reverse polarity protection. / by fuse / diodes
- Output short circuit protection
- Temperature protection: 50 +/- 5 degrees
- Overload protection
- Input low voltage protection
- Low battery alarm
- Low battery shut-down
- Input high voltage protection



## TECHNICAL SPECIFICATIONS

MODEL 12V VERSION	PM-A-0600CA-103	PM-A-0600CA-112	PM-A-1200CA-104	PM-A-1200CA-112	PM-A-1200CA-125	PM-A-1800CA-104	PM-A-1800CA-112	PM-A-1800CA-125	PM-A-2500CA-112	PM-A-2500CA-125
Output power continuous	550 W	550 W	1200 W	1200 W	1200 W	1800 W	1800 W	1800 W	2500 W	2500 W
Instant surge	1600 W	1600 W	3600 W	3600 W	3600 W	4500 W	4500 W	4500 W	7500 W	7500 W
Regulation	+ 5% or - 8%					±5 - 10%				
DC input voltage	10 - 15V									
Charging current	3 A	12 A	4 A	12 A	25 A	4 A	12 A	25 A	12 A	25 A
No load current	< 0.36A									
Low battery alarm	10.0V									
Low battery shutdown	10V±0.5V									
Efficiency	85 - 90%				85%				86%	
Dimensions (L x W x H) in mm	400 x 210 x 90		570 x 210 x 90			700 x 210 x 90			645 x 182 x 167	
Net weight in kgs	2.1		6.0			8.5			11.3	

MODEL 24V VERSION	PM-A-0600CA-202	PM-A-0600CA-210	PM-A-1200CA-202	PM-A-1200CA-210	PM-A-1800CA-202	PM-A-1800CA-210	PM-A-2500CA-210	
Output power continuous	550 W	550 W	1200 W	1200 W	1800 W	1800 W	2500 W	
Instant surge	1600 W	1600 W	3600 W	3600 W	4500 W	4500 W	7500 W	
Regulation	±5 - 10%							
Charging current	2 A	10 A	2 A	10 A	2 A	10 A	10 A	
No load current								
Low battery alarm	21 V							
Low battery shutdown	20 V							
Efficiency	85 %				86 %			
Dimensions (L x W x H) in mm	420 x 210 x 90		570 x 210 x 90			700 x 210 x 90		645 x 182 x 167
Net weight in kgs	4.5		6.0			8.5		11.3

### THE FOLLOWING SPECIFICATIONS APPLY TO BOTH THE 12V AND 24V VERSIONS

AC input voltage	100V - 120V or 220V - 240V / 50 or 60Hz
AC output voltage	100 - 120V or 220V - 240V
Output waveform	Modified sinewave
Input low voltage protection	YES
Input high voltage protection	YES
Reverse polarity protection	YES
Output short circuit protection	YES
Overload protection	YES
Auto temperature controlled fan	YES
Input /output isolated	YES
AVR design	YES
Remote Control	YES
Temperature protection	50 deg C - 5 deg C
Output frequency	50Hz or 60Hz ± 3% (depending on whether 100 - 120VAC OR 220 - 240VAC output voltage)

We reserve the right to change specifications without prior notice