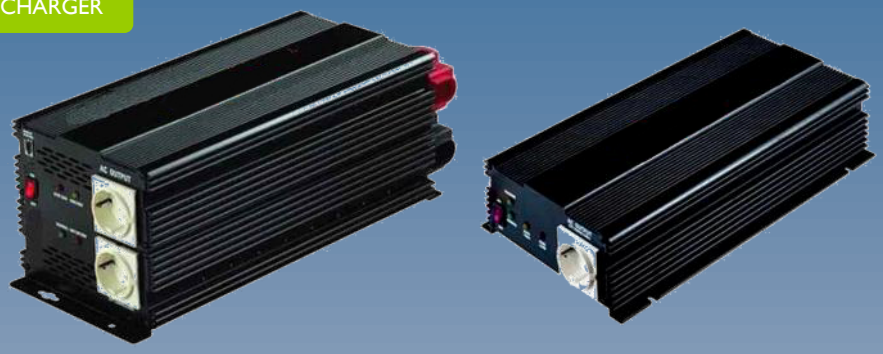
Photovoltaics

MODIFIED SINE WAVE INVERTER/CHARGERS

HIGH FREQUENCY

AC CHARGER



KEY FEATURES

- Modified sine wave AC to DC inverter with crystal-controlled power frequency.
- Available from small 300W to large 5KW output.
- Built-in AC charger provides additional power source from utility or generator.
- AC or DC power priority can be customized.
- Built-in full-feature protections with on/off switch.
- Auto-indicating full battery.
- Automatic thermal cooling fan.

ARM-C Series	312	612/624	1012/1024	2012/2024	3012/3024	5048
ELECTRICAL SPECIFICATIONS						
Continuous/Surge Output	300/900W	600/1500W	1/2.4KW	2/4KW	3/6KW	5/10KW
Output Voltage	100~120V or 220~240V ±5% Intelligent AVR					
Output Waveform	Modified Sine wave					
Output Frequency	50Hz/55Hz/60Hz Crystal controlled					
Efficiency	> 85%					
Input VDC / Range	**12V**: 10V~15V	**12V**: 10V~15V; **24V**: 20V~30V				**48V**: 40V~60V
Charging Current	10A	12V: 10A / 24V: 5A				5A
Standby Current	<0.4A	<0.5A/<0.3A	<0.4A/<0.3A	<0.7A/<0.5A		<0.7A
Fuse Spec*Qty	20A*2	25A*3/15A*3	20A*9/10A*9	20A*16/10A*16	30A*16/15A*16	10A*24
AC Outlet	1*European / 2*Universal			2*European/3*Universal		
Batt. Voltage Detect	Auto-Detecting Wrong Batty (12V / 24V / 48V)					
PROTECTIONS						
Batt. Reverse Polarity	By Fuse					
Overload (Pre-Alarm/Shutdown)	>380/>420W	>640/>660W	>1100/>1200W	>2200/>2300W	>3200/>3300W	>5000/>5500W
Over Temperature	> 60°C Pre-Alarm; > 65°C Shut Down; recovers automatically after temperature goes down					
Low Battery	12V: <10.5V±0.5V Pre-Alarm, <9.5V±0.5V Shut Down; 24V: <21.5V±1V Pre-Alarm, <20V±1V Shut Down; 48V: <42V±1.5V Pre-Alarm, <40V±1.5V Shut Down					
Short Circuit	Shut off output voltage					
LED Indicators	2		4	5		
ENVIRONMENTAL / MECHANICAL SPECIFICATIONS						
Certification / EMC	CE / EN61000-6-3. EN61000-6-1 EN55022 EN55024					
Operating Temp.	-10°C~ +55°C					
Operating / Storage Humidity	20~90%RH / 10~95%RH Non-Condensing					
Storage Temp.	-20°C~ +70°C					
Dimension	200*173*65mm	280*173*65mm	360*195*80mm	420*169*152mm		560*169*152mm
Weight	1.7Kg	2.8Kg	3.8Kg	7.4Kg	7.8Kg	12Kg

*Product specifications are subject to change without prior notice. ARM Solar is a registered trademark of ARM Solar Inc

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