

# Pure Sine Wave DC-AC Inverter



RND 320-00138



RND 320-00139



RND 320-00140 - 12 V  
RND 320-00141 - 24 V



RND 320-00142 - 12 V  
RND 320-00143 - 24 V



## Features

- Pure Sine Wave Output
- Microcontroller Integrated
- Adjustable Energy Saving Mode
- Input & Output Fully Isolation
- Intelligent PWM Output Regulation
- Intelligent Temp & Load Cooling Fan
- Multi Pre-Alarm & Shutdown Alarm Protections: Battery Type Detection / Polarity Reverse / Low Voltage Short Circuit / Overheat / Overload
- Aluminum Housing
- 100% Made in Taiwan

Model	RND 320-00138		RND 320-00139		RND 320-00140 - 12 V RND 320-00141 - 24 V		RND 320-00142 - 12 V RND 320-00143 - 24 V		
<b>System</b>									
Continuous Power	150W		300W		350W		700W		
Surge Power	300W		600W		700W		1200W		
Output Voltage	100/110/120 VAC; 220/230/240 VAC								
Output Waveform	Pure Sine Wave								
Total Harmonic Distortion	< 3%								
Output USB Port	5VDC, 2.1A								
Standby Current (Normal)	DC 12V	< 0.7A					< 0.9A		
	DC 24V	< 0.5A					< 0.6A		
Standby Current (Saving)	-		-		< 0.1A				
Output Regulation	< ±5% Intelligent PWM								
Output Frequency (50/60 Hz)	Crystal Controlled				Switchable by DIP				
Input Voltage	DC 12V: 10~15V; DC 24V: 20~30V								
Efficiency	> 90%				> 85%				
<b>Protection</b>									
Input Type Auto-Detection	Yes								
Input Polarity Reverse Prot.	Fuse								
Input Low Voltage Prot.	DC 12V: < 10.5V Pre-Alarm, < 10V Auto-off & Alarm DC 24V: < 21.0V Pre-Alarm, < 20V Auto-off & Alarm								
Short Circuit Prot.	Yes								
Overheat	> 60°C Pre-Alarm, > 65°C Auto-off & Alarm								
Overload	Pre-Alarm	> 150W		> 300W		> 350W		> 700W	
	Auto-off & Alarm	> 170W		> 330W		> 370W		> 750W	
Cooling	Intelligent Fan								
<b>Mechanical</b>									
Fuse	DC 12V	15A x 1PCS		35A x 1PCS		20A x 2PCS		30A x 3PCS	
	DC 24V	10A x 1PCS		20A x 1PCS		20A x 1PCS		15A x 3PCS	
AC Outlets	EU: 1; USA: 2								
Dimension (L x W x H) (mm)	205 x 91 x 65				295 x 135 x 80		340 x 135 x 80		
Net Weight	0.9 kg		1.0 kg		1.5 kg		2.1 kg		
RC (LED) Accessory	-		-		RND 320-00146		RND 320-00146		

# Pure Sine Wave DC-AC Inverter



RND 320-00144  
RND 320-00145



## Features

- Pure Sine Wave Output
- Microcontroller Integrated
- Adjustable Energy Saving Mode
- Input & Output Fully Isolation
- Intelligent PWM Output Regulation
- Intelligent Temp & Load Cooling Fan
- Multi Pre-Alarm & Shutdown Alarm
- Protections: Battery Type Detection / Polarity Reverse / Low Voltage Short Circuit / Overheat / Overload
- Aluminum Housing
- 100% Made in Taiwan

Model		RND 320-00144 - 12V RND 320-00145 - 24V
<b>System</b>		
Continuous Power		1500W*
Surge Power		3000W
Output Voltage		100/110/120 VAC; 220/230/240 VAC
Output Waveform		Pure Sine Wave
Total Harmonic Distortion		< 3%
Output USB Port		-
Standby Current (Normal)	DC 12V	< 1.2A
	DC 24V	< 0.9A
Standby Current (Saving)		< 0.15A
Output Regulation		
Output Frequency (50/60 Hz)		Switchable by DIP
Input Voltage		DC 12V: 10~15V; DC 24V: 20~30V
Efficiency		> 85%
<b>Protection</b>		
Input Type Auto-Detection		Yes
Input Polarity Reverse Prot.		Fuse
Input Low Voltage Prot.		DC 12V: < 10.5V Pre-Alarm, < 10V Auto-off & Alarm DC 24V: < 21.0V Pre-Alarm, < 20V Auto-off & Alarm
Short Circuit Prot.		Yes
Overheat		> 60°C Pre-Alarm, > 65°C Auto-off & Alarm
Overload	Pre-Alarm	> 1500W
	Auto-off & Alarm	> 1600W
Cooling		Intelligent Fan
<b>Mechanical</b>		
Fuse	DC 12V	25A x 8PCS
	DC 24V	20A x 8PCS
AC Outlets		
Dimension (L x W x H) (mm)		430 x 227 x 88
Net Weight		5.2 kg
RC Accessory		RND320-00136
<b>Note:</b>		
* RND 320-00144 & RND 320-00145: 1600W for 10mins		