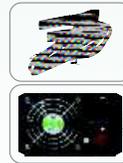


### PURE SINE WAVE DC TO AC POWER INVERTER



Model	P400U-121	P400U-122	P400U-241	P400U-242
Rated Power	400W			
Surge Power	800W			
Output Voltage	110V	230V	110V	230V
Output Frequency	50/60Hz±3			
Soft Start	YES			
Output Waveform	Pure Sine Wave 			
USB Port	5V, 500mA(Optional)			
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage			
Input Voltage	12V		24V	
Dimension	260 x 150 x 58 mm (L x W x H)			
N.W./Unit	1600g			
QTY/ Ctn	6 Pcs			
Meas./Ctn	57 x 30.5 x 30cm			
Packing	Gift box			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS E-mark			
Warranty	24 Months			

Note: if without USB,the model is P400.

### PURE SINE WAVE DC TO AC POWER INVERTER

Model	P600-121	P600-122	P600-241	P600-242
Rated Power	600W			
Surge Power	1200W			
Output Voltage	110V	230V	110V	230V
Output Frequency	50/60Hz±3			
Soft Start	YES			
Output Waveform	Pure Sine Wave 			
LED Indicator	Green-Power on, Red-Failure & Protection			
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage			
Input Voltage	12V		24V	
Dimension	260 x 150 x 77.7 mm (L x W x H)			
N.W./Unit	2200g			
QTY/ Ctn	6 Pcs			
Meas./Ctn	57 x 30.5 x 30cm			
Packing	Gift box			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS E-mark			
Warranty	24Months			





### PURE SINE WAVE DC TO AC POWER INVERTER

Model	P1000-121	P1000-122	P1000-241	P1000-242	P1000-481	P1000-482
Rated Power	1000W					
Surge Power	2000W					
Output Voltage	110V	230V	110V	230V	110V	230V
Output Frequency	50/60Hz±3					
Soft Start	YES					
Output Waveform	Pure Sine Wave $\sim$					
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage					
Input Voltage	12V		24V		48V	
Dimension	293 x 150 x 97.5 mm (L x W x H)					
N.W./Unit	3100g					
QTY/ Ctn	4 Pcs					
Meas./Ctn	38.5 x 35 x 34cm					
Packing	Gift box					
Brand	CARSPA or OEM					
Certification	CE-EMC/LVD RoHS E-mark					
Warranty	24Months					

### PURE SINE WAVE DC TO AC POWER INVERTER

Model	P1500U-121	P1500U-122	P1500U-241	P1500U-242	P1500U-481	P1500U-482
Rated Power	1500W					
Surge Power	3000W					
Output Voltage	110V	230V	110V	230V	110V	230V
Output Frequency	50/60Hz±3					
Soft Start	YES					
Output Waveform	Pure Sine Wave $\sim$					
USB Port	5V, 500mA(Optional)					
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage					
Input Voltage	12V		24V		48V	
Dimension	405 x 230 x 108 mm (L x W x H)					
N.W./Unit	6200g					
QTY/ Ctn	2 Pcs					
Meas./Ctn	46 x 31.5 x 38.5cm					
Packing	Gift box					
Brand	CARSPA or OEM					
Certification	CE-EMC/LVD RoHS E-mark					
Warranty	24 Months					



Note: if without USB, the model is P1500.

### PURE SINE WAVE DC TO AC POWER INVERTER



Model	P2000U-121	P2000U-122	P2000U-241	P2000U-242	P2000U-481	P2000U-482
Rated Power	2000W					
Surge Power	4000W					
Output Voltage	110V	230V	110V	230V	110V	230V
Frequency	50/60Hz±3					
Soft Start	YES					
Output Waveform	Pure Sine Wave 					
USB Port	5V, 500mA(Optional)					
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage					
Input Voltage	12V		24V		48V	
Dimension	405 x 230 x 108 mm (L x W x H)					
N.W./Unit	6350g					
QTY/ Ctn	2 Pcs					
Meas./Ctn	46 x 31.5 x 38.5cm					
Packing	Gift box					
Brand	CARSPA or OEM					
Certification	CE-EMC/LVD RoHS E-mark					
Warranty	24 Months					

Note: if without USB,the model is P2000.

### PURE SINE WAVE DC TO AC POWER INVERTER

Model	P2500U-121	P2500U-122	P2500U-241	P2500U-242	P2500U-481	P2500U-482
Rated Power	2500W					
Surge Power	5000W					
Output Voltage	110V	230V	110V	230V	110V	230V
Output Frequency	50/60Hz±3					
Soft Start	YES					
Output Waveform	Pure Sine Wave 					
USB Port	5V, 500mA(Optional)					
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage					
Input Voltage	12V		24V		48V	
Dimension	405 x 230 x 108 mm (L x W x H)					
N.W./Unit	6350g					
QTY/ Ctn	2 Pcs					
Meas./Ctn	46 x 31.5 x 38.5cm					
Packing	Gift box					
Brand	CARSPA or OEM					
Certification	CE-EMC/LVD RoHS E-mark					
Warranty	24 Months					

Note: if without USB,the model is P2500.



## FAQ

### 1. What is the difference between modified sine wave and pure sine wave?

**Answers:** Modified sine wave power inverters are more portable than pure sine wave power inverters, lighter, and lower in cost. If your device will handle voltage fluctuations, a modified sine wave inverter should be considered. Most devices that people typically wish to power will work fine with a modified sine wave inverter, as a precaution, please contact the manufacturer of your device to determine if it is compatible.

Pure sine wave power inverters motor's run cooler, last longer and provide very clean power like you would receive from a power company. Devices such as laser printers, digital clocks, and most medical equipment require a pure sine wave inverter to run correctly. As noted above, as a precaution, please contact the manufacturer of your device to determine if pure sine wave power is required.

### 2. Can you give me some suggestions for connecting batteries in parallel?

- Answers:**
- Use batteries of identical make, model, and age.
  - Make sure cable gauge is sufficient to handle the higher current flow.
  - Prevent cables from shorting (do not allow them to rub against the vehicle body).
  - Use only high quality connectors, clean all contacts prior to installation.
  - Periodically check all connections for snugness.
  - If you are unsure of this procedure, contact your automotive service center.

### 3. Can I use an extension cord with my inverter?

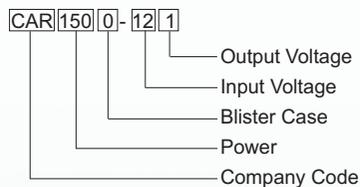
**Answers:** Yes, no problem. If cables need to be run, it is best to keep inverter as close as possible to batteries. Use extension cords on the output side (Vac output) rather than extending the Vdc cables. Tip: Contractors often need to mount the inverter in the back of their trucks. In a case like this it would be best to mount a secondary battery near the inverter and wire it to the primary truck battery. Vac extension cords should not exceed 200 feet or you will have signal loss

### 4. How does a power inverter work?

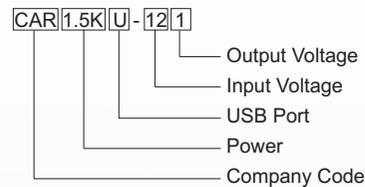
**Answers:** A power inverter converts DC power into conventional AC power allowing you to use your favorite devices when an AC outlet is not available. Simply connect an inverter to a battery source, plug your appliance into the inverter and you're set!

## Model Explanation

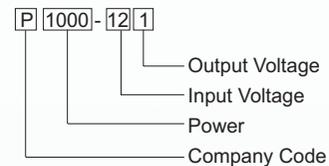
### 1. Mini Car Inverter



### 2. Modified Sine Wave Inverter



### 3. Pure Sine Wave Inverter



### 4. Solar Charge Controller

