

Cobra[®]

PURE SINE 400W

POWER INVERTER



(Sold Separately)

QUICK START GUIDE

Connecting Directly To A Vehicle Battery

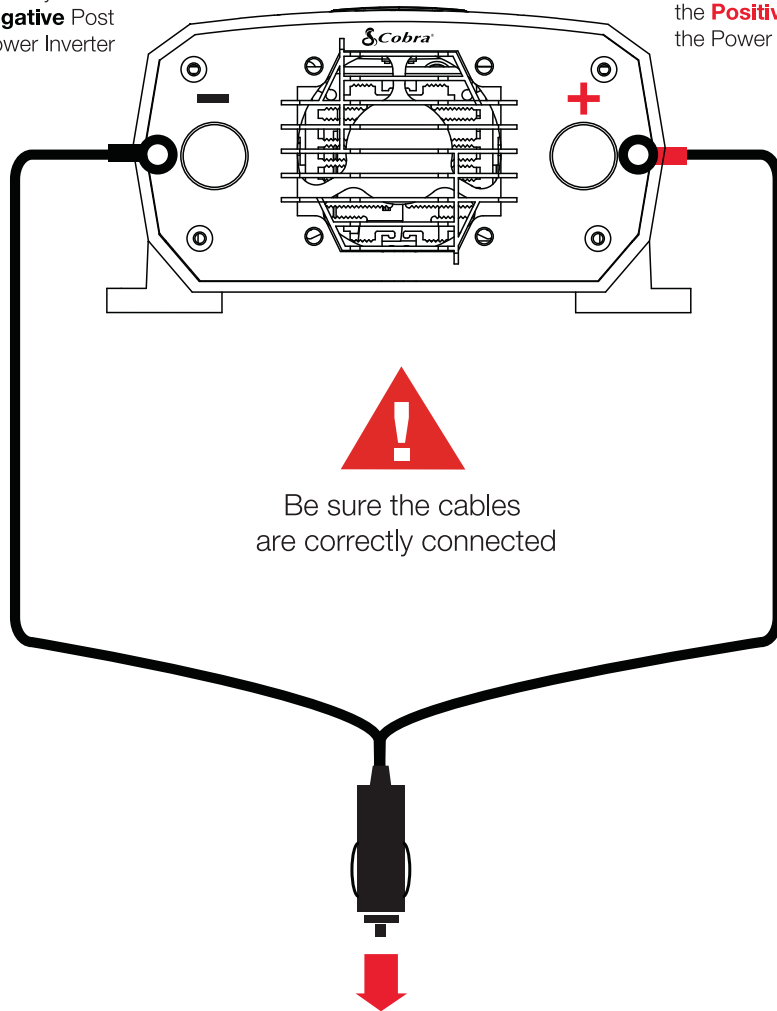
(Please Refer to Diagram on Previous Page)

1. Mount the inverter inside the vehicle in a well ventilated location close to the battery
2. Disconnect the **NEGATIVE (-)** or black battery terminal of the vehicle
3. Route cables close to the battery
4. Install the insulated terminal boots on the inverter end of the power cables (**RED = positive**, **BLACK = negative**)
5. Connect the **BLACK** Cable to the Negative (-) terminal on the Inverter
6. Connect the **RED** Cable to the Positive (+) terminal on the Inverter
7. Connect the other end of the **RED** cable to the (+) terminal on the vehicle battery
8. Visually inspect and make sure the red wire or its connectors are not touching any metal parts of the vehicle or the black wire connectors
9. Connect the other end of the **BLACK** cable to the (-) terminal on the vehicle battery. **Caution:** *There is normally a spark at the point of contact at the negative terminal*
10. Check all connections making sure the **RED** cable is connected to the **POSITIVE (+)** terminals and the **BLACK** cable is connected to the **NEGATIVE (-)** terminals
11. Press the POWER button to turn on your inverter

Connecting To A Vehicle Accessory Port

Connect the **BLACK** 12V Accessory Cable to the **Negative** Post on the Power Inverter

Connect the **RED** 12V Accessory Cable to the **Positive** Post on the Power Inverter



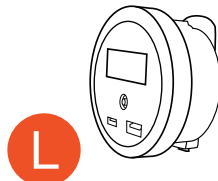
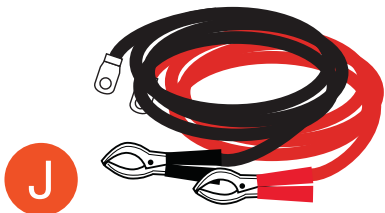
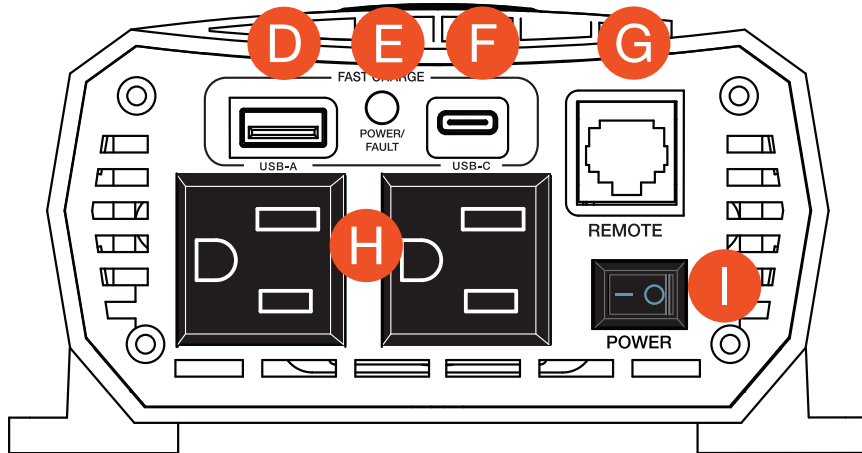
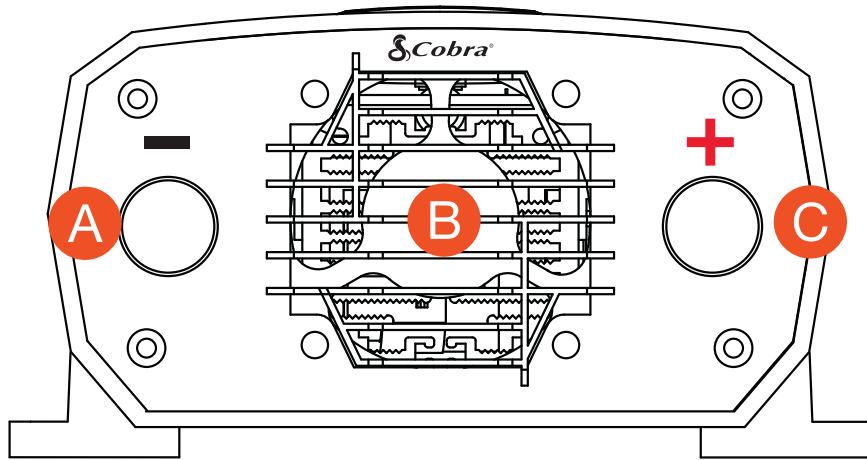
Be sure the cables are correctly connected

Plug the 12V Accessory Cable into the Vehicle Accessory Port*

1. Mount your inverter in a well-ventilated area of vehicle
2. Remove the thumb cap on the inverter for each terminal
3. Connect the **RED (+)** 12V Accessory Cable ring terminal to the **RED (+)** inverter terminal.
4. Screw the thumb cap back on the **RED (+)** inverter terminal
5. Connect the **BLACK (-)** 12V Accessory Cable ring terminal to the **BLACK (-)** inverter terminal.
6. Screw the thumb cap back on the **BLACK (-)** inverter terminal
7. Plug the 12V Accessory Cable into vehicle accessory port*
8. Place the power switch into the ON position by pressing the left side of the switch to turn ON your inverter. Place the power switch into the OFF position by pressing the right side of the switch to turn OFF your inverter

*The 12V Accessory Cable can support on average up to 120 Watts. Do not overload. Please refer to your vehicle manual for the maximum load your vehicle's accessory port can handle

PURE SINE 400W Features



- A. Negative Power Input Terminal
- B. Cooling Fan - regulate the temperature of the inverter, turning on when temperature exceeds the preset limit, and turning off when the temperature reduces
- C. Positive Power Input Terminal
- D. USB-A Fast Charge port (5V/9V/15W)
- E. Power/Fault LED Indicator
- F. USB-C Fast Charge port (5V/9V/15W)
- G. Port for Cobra Remote On/Off Controller with Fast Charge USB (Sold Separately)*
- H. (2) GFCI Protected AC Outlets
- I. Power Switch
- J. Power Cables
- K. 12 Volt Accessory Cable (for vehicle accessory port)
- L. Cobra Remote On/Off Controller with Fast Charge USB (Sold Separately)*

*Model CPIALCDG1

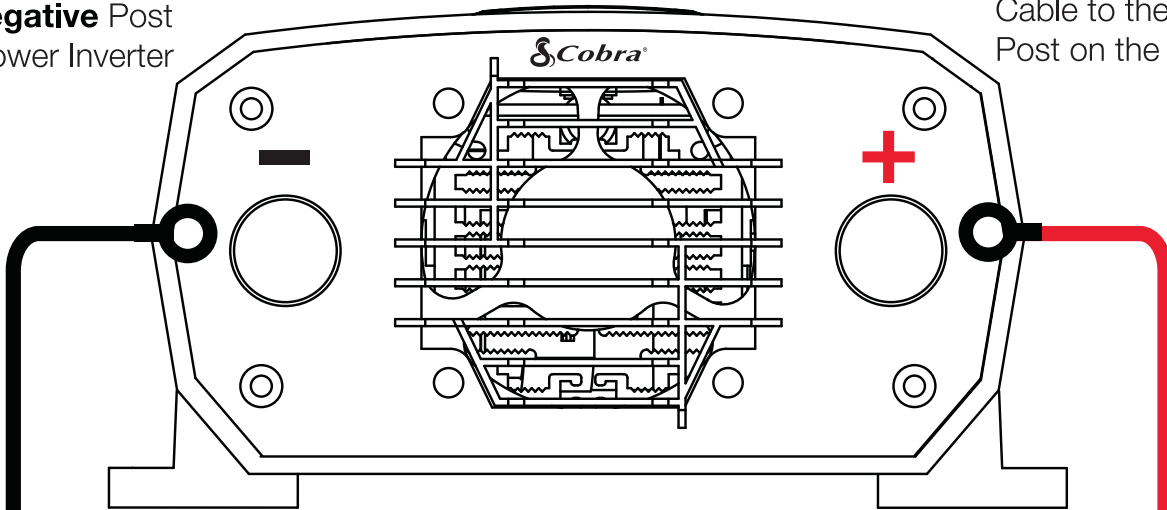


Connecting Directly To A Vehicle Battery

(Instruction on the Following Page)

Connect the **BLACK** Cable to the **Negative** Post on the Power Inverter

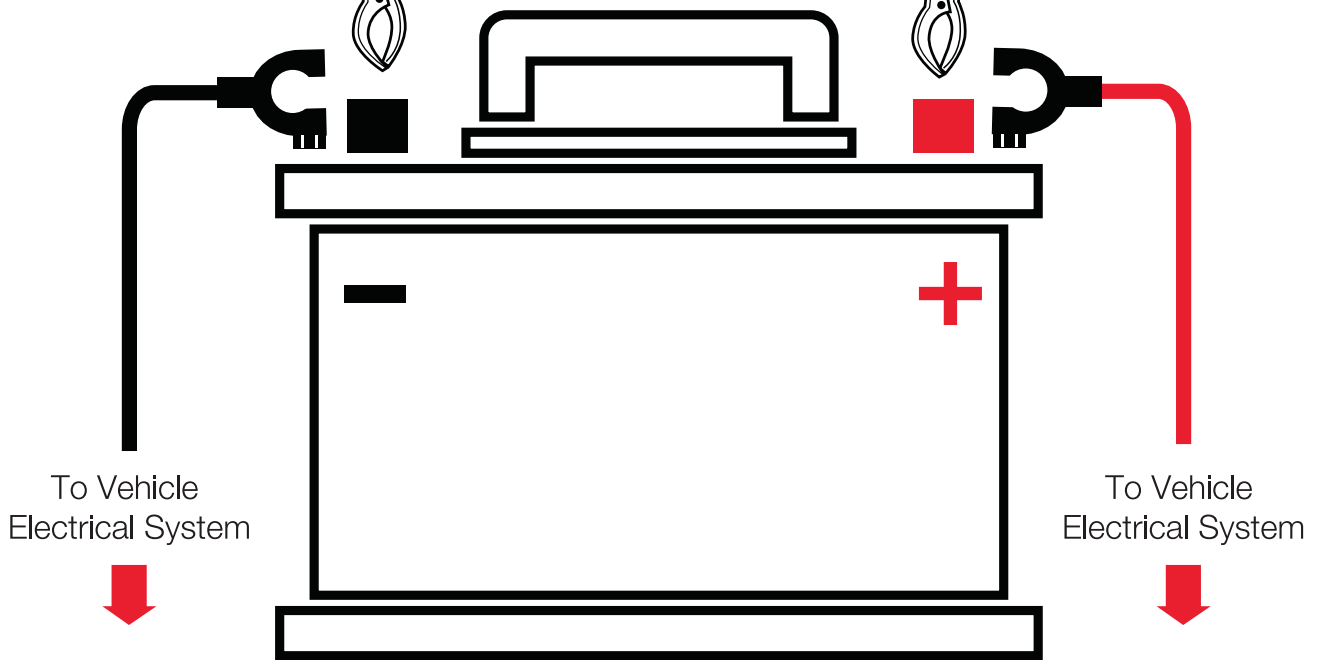
Connect the **RED** Cable to the **Positive** Post on the Power Inverter



Connect the Negative and Positive Cables to the Negative and Positive Terminals on the Vehicle Battery



Be sure the cables are correctly connected



Continued →

Thank you for purchasing the Cobra PURE SINE 400 Watt Inverter (Model CPI400PSW)

Ideal for travelers and outdoor enthusiasts who want to power devices and equipment as if they were home. Also perfect for specialty and medical equipment.

Count on Cobra for Power Where You Need It.

Download the full CPI400PSW manual at:
cobra.com/manuals



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(Sold Separately)

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INTRODUCTION

Thank you for purchasing the **Cobra PURE SINE 400W Power Inverter (Model CPI400PSW)**. Your inverter is designed with "Pure Sine Wave," a wave form identical to AC power you use inside your home. Rely on Pure Sine Wave to operate your sensitive electronics such as medical equipment (i.e. CPAP or nebulizer), audio/video systems, programmable appliances, computers, communications equipment, and appliances designed with an inductive motor properly and more efficiently. Your appliances will "thank you" for it.

Use this inverter to power AC appliances inside your vehicle. The inverter is designed to power continuously from a 12 Volt DC source (i.e. vehicle battery). Used properly, this Cobra product will give you reliable power to run your appliances and devices. Please read this manual thoroughly before you install and set up your new power inverter.

HOW YOUR POWER INVERTER WORKS

The Cobra PURE SINE 400W Power Inverter is a power conversion device that is designed and built to operate from low Voltage DC (Direct Current) power from your vehicle battery and converts it to standard 115 Volt AC (Alternating Current) power like you have in your home. This conversion process allows you to use many of your household appliances and electronic products in automobiles, RVs, boats, trucks and virtually anywhere else with a 12 Volt battery.

PRODUCT SERVICE AND SUPPORT

For any questions about operating or installing this new Cobra product, PLEASE CONTACT COBRA FIRST...do not return this product to the retail store. The contact information for Cobra will vary depending on the country in which you purchased and utilize the product. For the latest contact information, please go to www.cobra.com/support or call 1-800-543-1608.

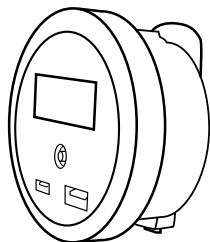
If your product should require factory service, please go to www.cobra.com/support and follow the instructions.

WHAT'S IN THE BOX

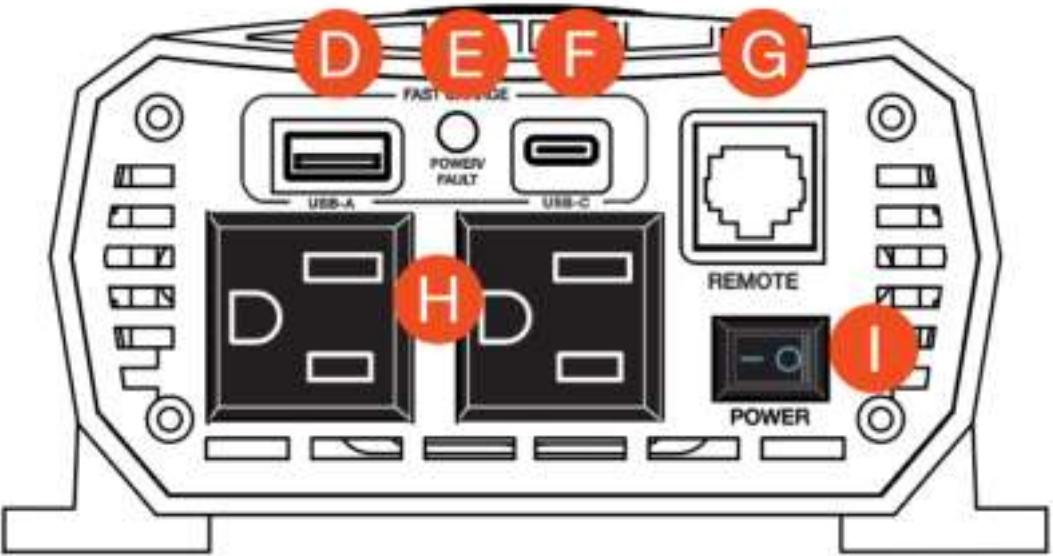
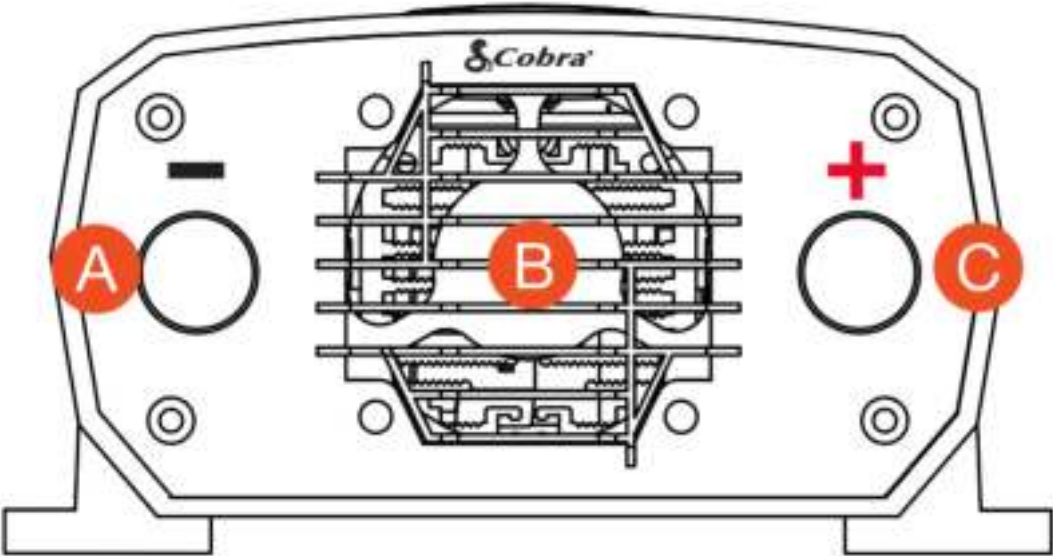
- Cobra CPI400PSW Power Inverter
- 16" #12 AWG Power Cables
- 16" 12-Volt Accessory Cable
- Quick Start Guide

OPTIONAL ACCESSORIES – available at www.cobra.com

- **CPIALCDG1** - Remote On/Off controller with Fast Charge USB



CONTROLS AND CONNECTIONS



*Model CPIALCDG1

- A.** Negative Power Input Terminal
- B.** Cooling Fans – regulate the temperature of the inverter, turning on when temperature exceeds the preset limit, and turning off when the temperature reduces
- C.** Positive Power Input Terminal
- D.** USB-A Fast Charge port (5V/9V/15W)**
- E.** Power/Fault LED Indicator
- F.** USB-C Fast Charge port (5V/9V/15W)**
- G.** Port for Cobra Remote On/Off Controller with Fast Charge USB (Sold Separately)*
- H.** (2) GFCI Protected AC Outlets
- I.** Power Switch
- J.** Power Cables
- K.** 12 Volt Accessory Cable (for vehicle accessory port)
- L.** Cobra Remote On/Off Controller with Fast Charge USB (Sold Separately)*

** = Fast Charge works only on devices capable of supporting a charge up to 10W

IMPORTANT PRODUCT /SAFETY INFORMATION

Before installing and using your Cobra power inverter, please read these general precautions and warnings.

Caution and Warning Statements

Special attention must be paid to the **CAUTION** and **WARNING** statements in the manual.

CAUTION: Statements specify conditions which could cause damage to the unit or other equipment.

WARNING: Statements identify conditions that could result in personal injury or loss of life.

General Precautions

1. **Never install the inverter in a boat's engine compartment where gas and battery fumes are present.**
2. Do not operate the inverter if it has been dropped or damaged in any way.
3. Do not open the inverter; it contains no user-serviceable parts. Attempting to service unit could cause electrical shock.

NOTE: Internal components remain charged after all power is disconnected.

3. Do not expose the inverter to rain, snow, bilge water or spray.
4. Do not obstruct the ventilation openings.
5. Do not install the inverter in zero-clearance compartment.
6. Do not allow water or liquids in contact with the power inverter
7. Do not use appliances with damaged or wet cords.

CAUTION: This inverter should be used in **negative ground** applications only.

CAUTION: The inverter must only be connected to batteries with a nominal output voltage of 12 volts. Do not connect the power inverter to a 6 Volt battery and will be damaged if connected to a 24 Volt battery.

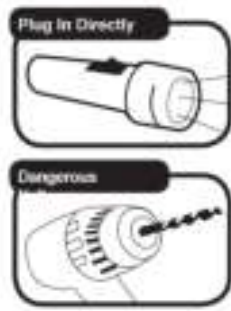
WARNING: Power inverters contain components that tend to produce arcs or sparks. To prevent fire or explosion, do not install the inverter in areas or compartments containing batteries or flammable materials or in locations that require ignition-protected equipment.

WARNING: To avoid fire, do not cover or obstruct the ventilation openings. Do not install the power inverter in a tight space or closed compartment where airflow may be restricted.

Proposition 65: Warning: Wash Hands After Handling Power Cord

The power cord on this product contains lead, a chemical known in the state of California to cause birth defects or other reproductive harm.

Caution: Rechargeable Appliances



Certain chargers for small nickel cadmium batteries can be damaged if connected to a Cobra POWER 400PSW inverter. Two particular types of equipment are prone to this problem:

1. Small battery-operated appliances such as flashlights, razors, and night lights that can be plugged directly into an AC receptacle to recharge.
2. Certain battery chargers for battery packs used in hand power tools. These chargers have a **WARNING** label stating that dangerous voltages are present at the battery terminals.

This problem does not occur with the vast majority of battery operated equipment. Most use a separate charger or transformer that is plugged into the AC receptacle and produces a low voltage output. If the label on the AC adapter or charger states that it produces a low voltage AC or DC output (less than 30 volts), the inverter will have no problem powering the adapter safely.

PENTAGON PROTECTION®

Cobra power inverters provide five levels of protection:

1. Over-Temperature: Auto-shut off will occur when the safe operating temperature has been exceeded.
2. Reverse Polarity: The inverter will not operate if connected incorrectly to the power source.
3. Over-Voltage: Auto-shutdown will occur if the DC input exceeds safe operating levels.
4. Low Voltage Alarm: The inverter will sound an alarm to indicate a low battery voltage condition.
5. Low Voltage Cutoff: The inverter will automatically shut off to prevent a dead battery condition.

For detailed specifications go to Specifications section of this manual, starting on page 18.

GETTING STARTED

This section provides you with the basic information about the inverter and a few tips before installation.

To get started, you will need:

1. **A 12 Volt DC battery** (i.e. vehicle battery. In order to understand how much current your battery must deliver, divide the number of Watts from your AC appliance or device by 10.
2. **Cables to connect your inverter to the vehicle battery.** These come with your PURE SINE 400W Inverter and provide a length of 16". If you need to install the inverter permanently, longer cable is required with a larger gauge.

DETERMINING THE POWER REQUIREMENTS FOR YOUR PRO INVERTER

Before you turn on your power inverter and plug in an appliance or device, you will want to understand its power requirements.

To determine the requirements, you will need to know the Watts of your device. This can be calculated by multiplying the Amps by 110 Volts (See Below).

POWER CONSUMPTION

For each piece of equipment you will be operating from the power inverter, you must determine the battery's reserve capacity (how long the battery can deliver a specific amount of current – in automotive batteries, usually 25 ampere) or ampere-hour capacity (a measure of how many amperes a battery can deliver for a specified length of time).

Example – Ampere-hour capacity: a battery with an ampere-hour capacity of 100 ampere-hours can deliver 5 ampere for 20 hours before it is completely discharged.

To determine the battery Ampere-hour capacity you require:

1. Determine how many Watts each piece of equipment consumes. This can normally be found on the product label. If only the Amperage is provided, then multiply the Amps by 115 to determine the power in Watts.
2. Estimate how long you need your appliance to run.
3. Now calculate the Amp-hour rating for the battery. **You can do this by multiplying the total AC load (in Watts) by the length of time (in Hours) needed to run your appliance.** This will give you the Watt-Hours needed.



$$\begin{aligned} &100 \text{ watts} \times 2 \text{ hours} \\ &= 200 \text{ watt-hours} \end{aligned}$$

4. Divide the watt-hours by 10 to determine how many battery (12 volt) ampere-hours will be consumed.

Multiply: AC AMPS X 110 (AC Voltage) = WATTS. This formula yields a close approximation of the continuous load of your appliance.

Multiply: WATTS X 2 = Starting load for most appliances, tools and devices. This formula yields a close approximation of the starting load for most appliances. Exceptions are motorized appliances such as pumps, freezers, and air conditioners. These appliances can have startup loads of up to eight times the rated Watts.

Determining the DC Power Requirements

Your power inverter requires the input of a 12-Volt battery. To calculate the approximate power in Amps as 12-Volt battery bank you need to know the current, or Amps required for powering the continuous AC load. A shortcut method is to divide the continuous AC load Wattage by 10. For example, the continuous AC load is 400 Watts. The current (Amps) is: $400/10$ or 40 Amps at 12VDC. Add to the load any DC appliances that may be powered by the battery bank.

MOUNTING THE INVERTER

Do not mount the power inverter under the hood of any vehicle. Choose a cool, dry, and well-ventilated area inside the vehicle as close to the battery as possible. Place the power inverter on a flat, secure surface. Make sure there are no wires, fuel lines or fluid tanks directly behind the wall or surface being drilled. When mounting, secure the power inverter in place using corrosion-resistant mounting hardware (not included).

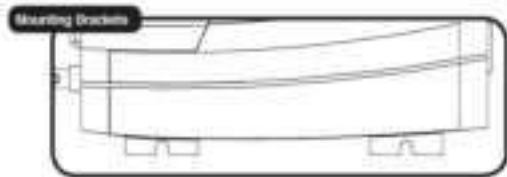
What you will need:

- Assess your mounting needs depending on the inverter and type of surface you are mounting (i.e. wood or fiber glass)
- Gather the necessary tools depending on the surface (i.e. drill or screwdriver)
- Determine size of mounting hardware. Use only corrosive resistant screws (not included)



Mounting Instructions:

1. Make sure the inverter is OFF.
2. Check for wires, fuel lines or fluid tanks behind the wall or surface you plan to drill.
3. Position the power inverter horizontally when choosing the mounting location. If mounted on a wall be sure the front of the inverter is facing out. Do not mount vertically to prevent debris or dust from falling into the power inverter.

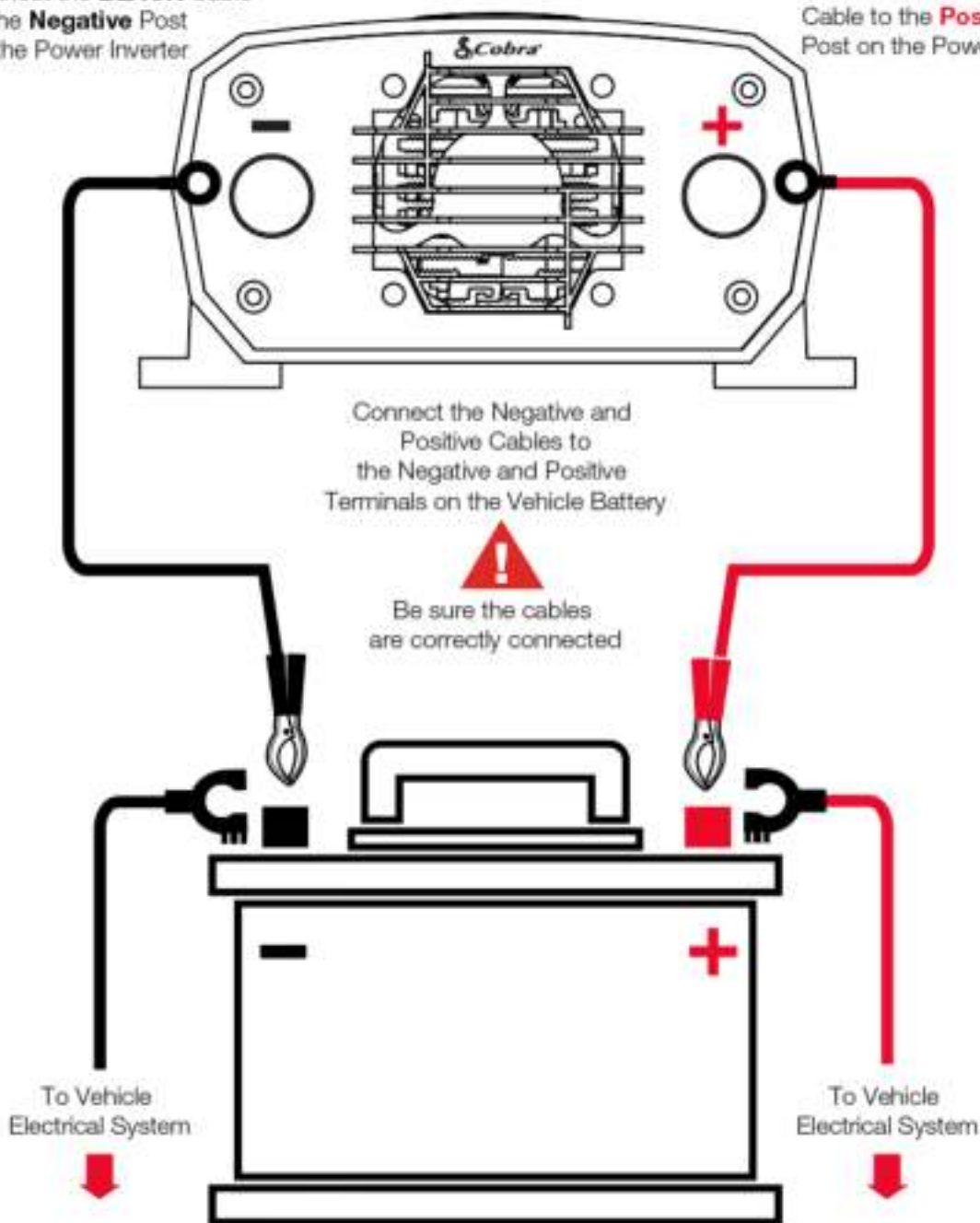


4. Mark the locations of the mounting screws before drilling.
5. Remove the inverter and drill the (4) mounting holes.
6. Fasten the inverter to the mounting surface using corrosion-resistant screws (not included).

PURE SINE 400W INSTALLATION

Connect the **BLACK** Cable to the **Negative** Post on the Power Inverter

Connect the **RED** Cable to the **Positive** Post on the Power Inverter



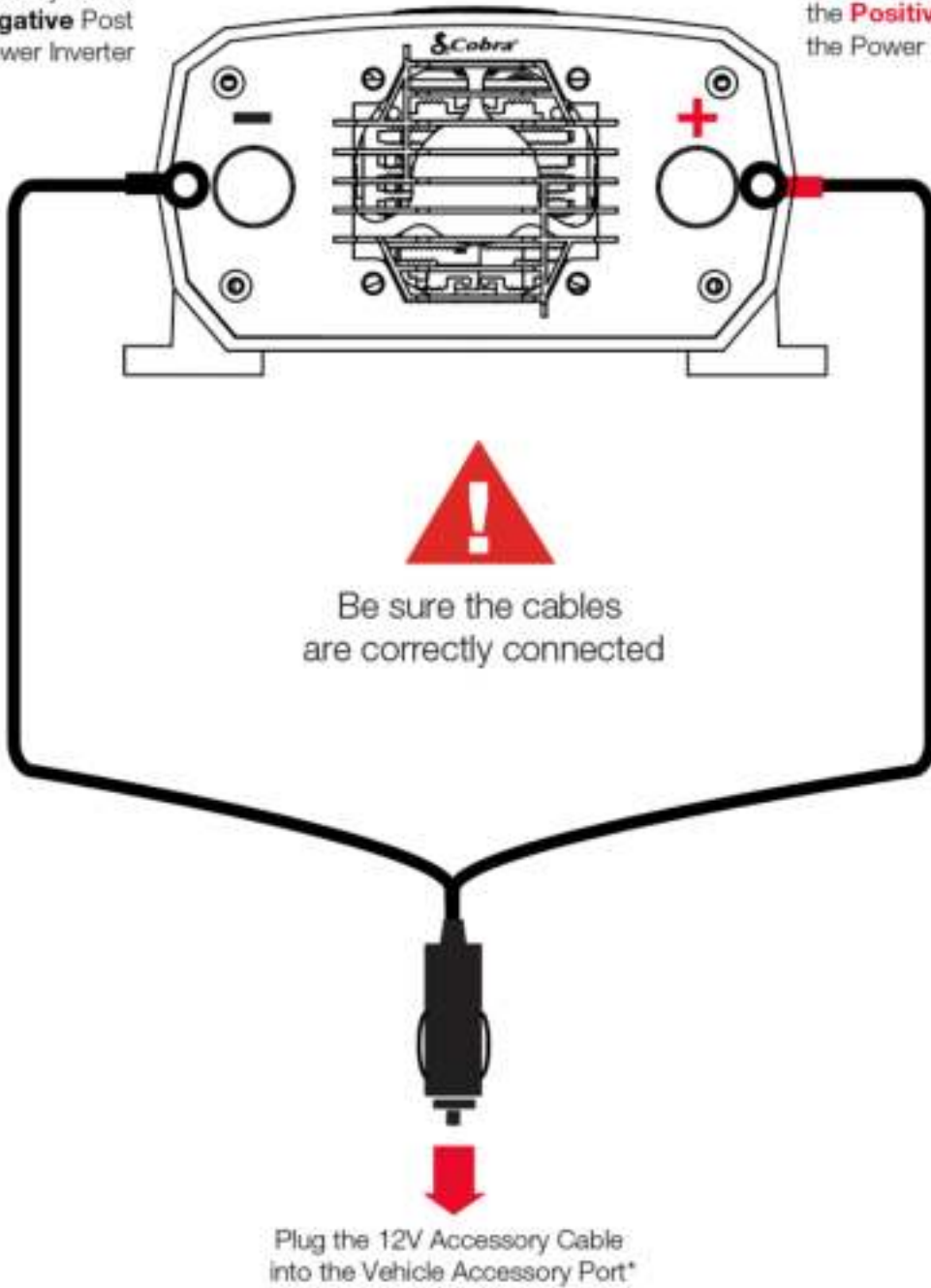
CONNECTING TO THE BATTERY

1. Mount the inverter inside the vehicle in a well ventilated location close to the battery.
2. Disconnect the **NEGATIVE (-)** or black battery terminal of the vehicle.
3. Route cables close to the battery.
4. Install the insulated terminal boots on the inverter end of the power cables (**RED = positive, BLACK = negative**).
5. Connect the **BLACK** Cable to the Negative (-) terminal on the inverter.
6. Connect the **RED** Cable to the Positive (+) terminal on the inverter.
7. Connect the other end of the **RED** cable to the (+) terminal on the vehicle battery.
8. Visually inspect and make sure the red wire or its connectors are not touching any metal parts of the vehicle or the black wire connectors.
9. Connect the other end of the **BLACK** cable to the (-) terminal on the vehicle battery. **Caution: There is normally a spark at the point of contact at the negative terminal.**
10. Check all connections making sure the **RED** cable is connected to the **POSITIVE (+)** terminals and the **BLACK** cable is connected to the **NEGATIVE (-)** terminals.
11. Press the POWER button to turn on your inverter.
12. If you purchased the **Cobra Remote On/Off Remote Controller with Fast Charge USB (Model CPIALCDG1)** accessory, plug the controller into the RJ45 jack labeled "REMOTE".

PURE SINE 400W 12V ACCESSORY INSTALLATION

Connect the **BLACK** 12V Accessory Cable to the **Negative** Post on the Power Inverter

Connect the **RED** 12V Accessory Cable to the **Positive** Post on the Power Inverter



CONNECTING TO THE 12V ACCESSORY

1. Mount your inverter in a well-ventilated area of vehicle.
2. Remove the thumb cap on the inverter for each terminal.
3. Connect the **RED (+)** 12V Accessory Cable ring to the **RED (+)** inverter terminal.
4. Screw the thumb cap back on the **RED (+)** inverter terminal.
5. Connect the **BLACK (-)** 12V Accessory Cable ring to the **BLACK (-)** inverter terminal.
6. Screw the thumb cap back on the **BLACK (-)** inverter terminal.
7. Make sure the inverter is in the OFF position "O".
8. Plug the 12V Accessory Cable into vehicle accessory port*.
9. When turning your inverter ON, place the power switch into the ON or "-" position by pressing the left side of the switch. When turning your inverter OFF, place the power switch into the OFF or "O" position by pressing the right side of the Power Switch.

*The 12V Accessory Cable can support on average up to 120 Watts. Do not overload. Please refer to your vehicle manual for the maximum load your vehicle's accessory port can handle

CAUTION: Do not connect the inverter and another AC source (such as a generator or utility power) to the AC wiring at the same time. The inverter will be damaged if its output is connected to AC voltage from another source. Damage can even occur if the inverter is switched off.

CAUTION: Do not connect the inverter to a load greater than 400 Watts.

CAUTION: It is not recommended to operate loads at the maximum rated output for permanent or extended periods of time. For continuous operation (greater than 60 minutes), it is recommended to operate a load 20% less than the inverter maximum output rating. For example, for a 400 Watt inverter, a maximum load of 320 Watts is recommended.

CAUTION: Loose connectors result in excessive voltage drop and may cause over heated wires and melted insulation.

CAUTION: Reverse polarity connections (positive to negative) will blow internal fuses in the inverter and may permanently damage the unit. Such damage is not covered by the warranty.

CAUTION We recommend a main fuse in the battery's positive cable to protect against DC wiring short circuits (external to the inverter). The fuse should be as close to the battery as possible. We recommend a **50 Amp ANL** fuse or equivalent. The specific fuse ampere rating should be sized to allow operation of all your DC powered equipment.

CAUTION: Remove any jewelry (watch, ring, etc.). Be careful not to short circuit the battery with any metallic object (wrench, etc.).

CAUTION: Electrical installations must meet local and national wiring codes, and should be performed by a qualified electrician.

WARNING: If you are making a permanent AC connection to the inverter, make sure that the AC wiring steps are performed before any DC wiring is done. (DC hook-up energizes internal components, regardless of the position of the On/Off Switch). Working on AC connections in such a circumstance may result in an electric shock.

WARNING: 115 volt AC power is potentially lethal. Do not work on AC wiring when it is connected to the inverter (even if it is switched off) unless the DC power source is physically disconnected from the inverter. Also, do not work on AC wiring if it is connected to another AC power source such as a generator or the utility line.

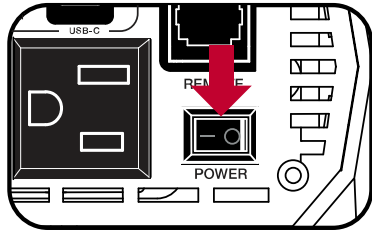
WARNING: You may observe a spark when making the connection because current can flow to charge the capacitors in the inverter. Do not make this connection in the presence of flammable fumes. Explosion or fire may result. Thoroughly ventilate the battery compartment before making this connection.

TURNING YOUR POWER INVERTER ON AND OFF

Be sure to have your power inverter properly installed before attempting to turn the unit on (see installation beginning on page 10)

To turn the power inverter on:

1. If a DC power supply is being used as the power source, switch it on.
2. On the Output End, press the Power Button to on.



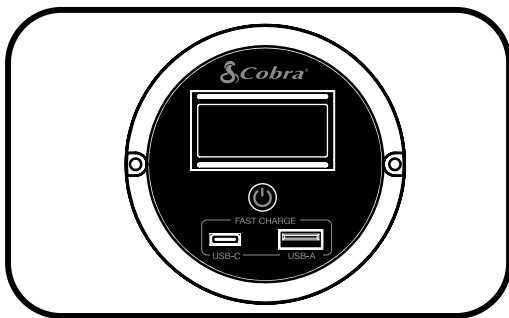
The power inverter is now ready to deliver AC power to your loads. If several loads are to be operated by the inverter, turn them on separately, after the inverter has been turned on. This will ensure that the inverter does not have to deliver the starting currents required for all the loads at once.

NOTE: The Power Button turns the control circuit in the inverter on and off. It does not disconnect power from the inverter.

When the button is in the off position, the inverter draws no current from the battery. When it's in the on position, but no power is being supplied to a load, the inverter draws less than 600 milliamperes from the battery. This is low current draw. It would take more than a week to discharge a 100 ampere-hour battery at this rate depending on the age of the battery.

COBRA REMOTE ON/OFF CONTROLLER WITH FAST CHARGE USB

Your Cobra POWER inverter is equipped with an RJ-45 jack labeled "REMOTE" for compatibility with the **Cobra Remote On/Off Controller with Fast Charge USB*** to allow you to conveniently turn the inverter ON and OFF from anywhere inside your vehicle as well fast charge your devices at the same time. Perfect for use while driving, traveling, camping or tailgating when your inverter is out of reach. (4) mounting options allow you to install it permanently, use it while driving in a cup holder or clip it to the back of a seat or a place inside your vehicle.



*Sold Separately. Can be purchased on www.Cobra.com

OPERATING INDICATORS

Indicators on the power inverter show the unit's power status and alarms for conditions that could cause it to shut down. The power and protection indicator includes a dual color green and red light, and an alarm.

Green Light

Power on – The green light should remain **on** steady.

Red Light and/or Alarm

Current overload – The red light will blink continuously, then the inverter will shutdown. The inverter will continue to check for appropriate current levels while trying to restart the load.

DC input voltage overload – The red light will turn on and the inverter will shutdown. The inverter will continue to check for appropriate voltage levels while trying to restart the load.

DC input voltage shortage – As a warning that the voltage is getting low, the internal alarm will sound. When the voltage is too low, the inverter will shutdown and the light will turn **red**. The inverter will continue to check for appropriate voltage levels while trying to restart the load.

Temperature overload – The red light will blink, then the inverter will shutdown. The inverter will continue to check for appropriate temperature levels while trying to restart the load.

NOTE: A momentary sound of the internal alarm and/or flash of the red light is normal at start up.

OPERATING LIMITS

Power Output

The inverter can deliver 400 watts for about 60 minutes. The inverter must cool for 15 minutes before it can resume operation at 400 watts. Note: The wattage rating applies to resistive loads.

The inverter will operate most AC loads within its power rating. Some induction motors used in freezers, pumps, and other motor-operated equipment require very high surge currents to start. The inverter may not be able to start some of these motors even though their rated current draw is within the inverter's limits. The inverter will normally start single phase induction motors rated at one-half HP or less.

Input Voltage

The inverter will operate from input voltage ranging from 10 volts to 15 volts. Optimum performance will occur when the voltage is between 12 volts and 14 volts. If the voltage drops below 10.5V+/-0.3V, an audible low battery warning will sound. The inverter will shut down if the input voltage drops below 9.5V+/-0.3V. This protects the battery from being over-discharged. It will restart when the input voltage exceeds 12V+/-0.3V. The inverter will also shut down if the input voltage exceeds change to 15.5V+/-0.5V. This protects the inverter against excessive input voltage. Although the inverter has protection against over-voltage, it may still be damaged if the input voltage were to exceed 16 volts.

TROUBLESHOOTING GUIDE

Problem/Symptom	Possible Causes	Solution
Low output voltage	Overload	Reduce the load.
No output voltage	Low input voltage	Recharge battery. Check connections and cable.
No output voltage after prolonged use	Thermal shutdown	Allow inverter to cool off. Reduce load, continuous operation input current required. Improve ventilation; make sure ventilation openings in the inverter are not obstructed. Reduce ambient temperature.
No output voltage, "Protect" indicator lighted	High input voltage	Make sure the inverter is connected to 12V battery. Check regulation or charging system.
No output voltage	Short circuit	Check load for proper operation.
No output voltage	Inverter switched off No power to inverter Reverse DC polarity	Turn inverter on . Check wiring to inverter. Observe correct polarity.
Low battery alarm on all the time	Poor DC wiring Poor battery condition	Check connections. Make sure battery is fully charged.

SPECIFICATIONS

Specifications:	PURE SINE 400W
Model	CPI400PSW
Input	13.0V DC
Output	115V AC, 60Hz, 3.4A, 400W
Output Waveform	Pure Sine Wave (PSW)
Continuous Power	400 Watt
Peak Power	800 Watt
Efficiency	90%
No Load Draw	< .6A
Low Battery Alarm	10.5V DC
Low Battery Shutdown	9.5V DC
USB-A Output Port	5V/3.0A, 9V/1.67A Fast Charge
USB-C Output Port	5V/3.0A, 9V/1.67A Fast Charge
AC Output Socket	2 GFCI Protected AC Outputs
Protection	Overload, Over Temperature, Short Circuit, Reverse Polarity, Over/Under Voltage and GFCI
Operating Temperature	-10°C/14°F - 40°C/104°F
Storage Temperature	-40°C/-40°F - 65°C/149°F
Power Cable Length:	16" #12 AWG (1) Red, (1) Black
CLA Cable Length:	16"
Compatible with Cobra Remote LCD (SKU CPIALCDG1)	Yes

*Specifications subject to change without notice.
Please go to www.Cobra.com for more details*

WARRANTY & TRADEMARK ACKNOWLEDGEMENT

Limited Two-Year Warranty

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You must pay any initial shipping charges required to ship the product for warranty service, but the return charges will be at Cobra's expense, if the product is repaired or replaced under warranty. This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

Exclusions: This limited warranty does not apply:

1. To any product damaged by accident.
2. In the event of misuse or abuse of the product or as a result of unauthorized alterations or repairs.
3. If the serial number has been altered, defaced, or removed.
4. If the owner of the product resides outside the U.S.A.

All implied warranties, including warranties of merchantability and fitness for a particular purpose are limited in duration to the length of this warranty. Cobra shall not be liable for any incidental, consequential or other damages; including, without limitation, to damages resulting from loss of use or cost of installation.

Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you.

For Products Purchased outside the U.S.A.

Please contact your local dealer for warranty information.

Trademark Acknowledgement

Cobra®, Nothing Comes Close to a Cobra®, Pentagon Protection® and the snake design are registered trademarks of Cobra Electronics Corporation, USA. Cobra Electronics Corporation™ is a trademark of Cobra Electronics Corporation, USA.

MAINTENANCE & PRODUCT SERVICE

Maintenance

Very little maintenance is required to keep the inverter operating properly. The exterior of the unit should be cleaned periodically with a damp cloth to prevent accumulation of dust and dirt. At the same time, tighten the screws on the DC input terminals. Be sure vents and fans are free of dust or debris.

Product Service

For any questions about operating or installing this new Cobra product, please go to www.cobra.com



Pure Sine Power Inverter with Fast Charge USB

Ideal for travelers and outdoor enthusiasts who want to power devices and equipment as if they were home. Perfect for specialty and medical equipment. Count on Cobra for Power Where You Need It.

Product Features


 **400 Watts Continuous Power**
800 Watts Peak Power

 **90% Efficiency**

 **(2) GFCI Protected AC Outlets**

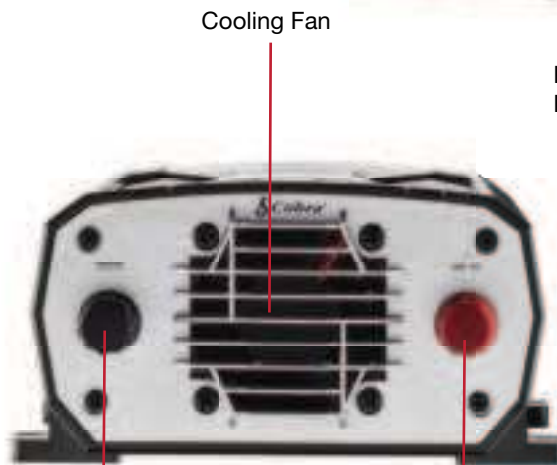
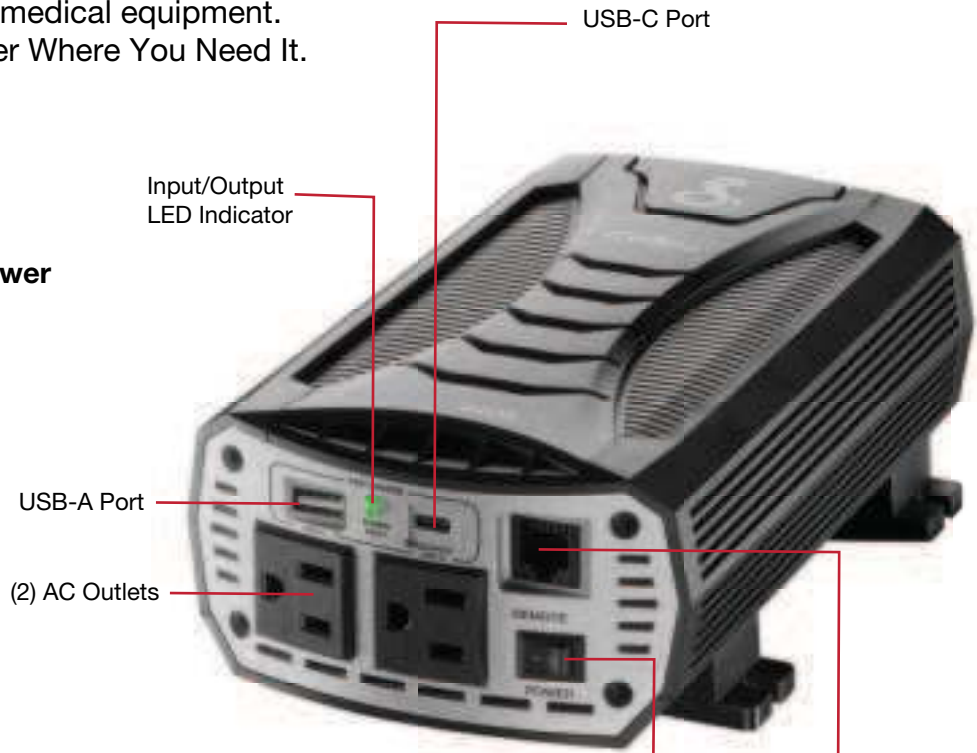
 **USB-A Fast Charge Port**
USB-C Fast Charge Port

 **LED Indicator**

 **Compatible with Cobra Remote On/Off Controller with Fast Charge USB***
*Sold Separately

 **Pentagon Protection® Safety**

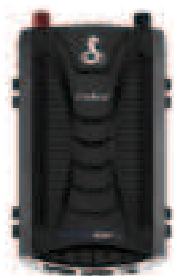
 **Rugged Industrial Design**



*Optional Cobra Remote On/Off Controller with Fast Charge USB to monitor & charge devices from anywhere inside your vehicle










What's Included:

- Cobra CPI400PSW Power Inverter
- 16" #12 AWG Direct-to-Battery Power Cables
- 16" 12 Volt Accessory Cable
- Quick Start Guide





Appliance Wattage Reference Chart

	10 W
	35 W
	30-60 W
	60-90 W
	40-100 W
	35-150 W
	90-150 W
	200 W
	300 W

Continuous Power	400W
Surge Power	800W
Efficiency Rating	90%
No-load draw	< .6A
Output Waveform	Pure Sine Wave
Input Voltage Range	10.5 - 15.0V DC
Output	115V AC, 60Hz, 3.4A, 400W
Low Voltage Alarm	10.5V DC
Low Voltage Cut-Off	9.5V DC
AC Receptacles	2 GFCI Protected AC Outputs
Fast Charge USB-A Output	5V/3.0A, 9V/1.67A Fast Charge
Fast Charge USB-C Output	5V/3.0A, 9V/1.67A Fast Charge
Remote-Ready Output Port	Yes
Remote Included*	No
12V Vehicle Accessory Cable	Yes
Includes Direct-to-Battery Cables	Yes
Direct-to-Battery Cables	16" #12 AWG Cables
Thermal Shut-Down	Yes
Reverse Polarity Protection	Yes
Volt/Watt Meter	2-Color LED
Warranty	2 Year
Package Type	Gift Carton
Product Weight	1.98 lbs
Product dimensions	8.86" H x 5.39" W x 2.83" D
Package dimensions	11.02" W x 9.06" H x 3.15" D
Master pack quantity	6
Master pack dimensions	10.24" H x 11.42" W x 18.90" D
Master pack weight	16.04 lbs
UPC	0 28377 31556 5
Master pack barcode	2 00 28377 31556 9

*Sold Separately

General Product Launch Info

MSRP/MAP: \$129.95

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Important Power Inverter Safety Information

Before installing and using your Cobra power inverter, please read these general precautions and warnings.

Caution and Warning Statements

To make the most of this inverter, it must be installed and used properly. Please read the installation and operating instructions carefully before installing and using it.

CAUTION: Statements specify conditions which could cause damage to the unit or other equipment.

WARNING: Statements identify conditions that could result in personal injury or loss of life.

General Precautions

1. Never install the inverter in a boat's engine compartment where gas and battery fumes are present.
2. Do not operate the inverter if it has been dropped or damaged in any way.
3. Do not open the inverter; it contains no user-serviceable parts. Attempting to service unit could cause electrical shock.

NOTE: Internal components remain charged after all power is disconnected.

4. Do not expose the inverter to rain, snow, bilge water or spray.
5. Do not obstruct the ventilation openings.
6. Do not install the inverter in zero-clearance compartment.

CAUTION: This inverter should be used in negative ground applications only.

WARNING: Power inverters contain components that tend to produce arcs or sparks. To prevent fire or explosion, do not install the inverter in areas or compartments containing batteries or flammable materials or in locations that require ignition-protected equipment.

WARNING: To reduce the risk of fire, do not cover or obstruct the ventilation openings. Do not install inverter in zero-clearance compartment.

Proposition 65 Warning: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Caution: Rechargeable Appliances

Certain chargers for small nickel cadmium batteries can be damaged if connected to a Modified Sine Wave inverter. These chargers will operate efficiently with a Cobra Pure Sine Wave inverter. Two particular types of equipment prone to this problem:

1. Small battery-operated appliances such as flashlights, razors, and night lights that can be plugged directly into an AC receptacle to recharge.
2. Certain battery chargers for battery packs used in hand power tools. These chargers have a **WARNING** label stating that dangerous voltages are present at the battery terminals.

This problem does not occur with the vast majority of battery operated equipment. Most use a separate charger or transformer that is plugged into the AC receptacle and produces a low voltage output. If the label on the AC adapter or charger states that it produces a low voltage AC or DC output (less than 30 volts), the inverter will have no problem powering the adapter safely.

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Información Importante de Seguridad del Inversor de Potencia

Lea las siguientes precauciones y advertencias antes de instalar y usar su Inversor de Potencia Cobra.

Declaraciones de Precaución y Advertencias

Instale y utilice adecuadamente su inversor para aprovecharlo al máximo. Lea cuidadosamente las instrucciones de instalación y operación antes de instalar y usar su inversor.

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| <p>PRECAUCIÓN: Las declaraciones a continuación especifican las condiciones que pueden provocar daños a la unidad u otro equipo.</p> <p>ADVERTENCIA: Las declaraciones a continuación especifican las condiciones que pueden resultar en lesión personal o pérdida de la vida.</p> |
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Precauciones generales:

1. Nunca instale el inversor en el compartimiento del motor de un barco donde haya vapores de gasolina y de la batería.
2. No opere el inversor si se ha caído o dañado de cualquier manera.
3. No abra el inversor, no contiene piezas a las que pueda dar servicio el usuario. Si intenta abrir la unidad para darle servicio puede recibir una descarga eléctrica.

NOTA: Los componentes internos permanecen cargados después de desconectar la fuente de alimentación.

4. No exponga el inversor a la lluvia, nieve, agua de sentina, o aspersión.
5. No obstruya las aberturas de ventilación.
6. No instale el inversor en compartimientos sin espacio libre.

- | |
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| <p>PRECAUCIÓN: El inversor se debe utilizar para aplicaciones de tierra negativa solamente.</p> <p>ADVERTENCIA: Los inversores de potencia contienen componentes que pueden generar arcos o chispas. Para evitar incendios o explosiones, no instale el inversor en áreas o compartimientos que contenga baterías o materiales inflamables, ni en lugares que requieran el uso de equipo protegido contra incendios.</p> <p>ADVERTENCIA: Para reducir el riesgo de incendio, no cubra ni obstruya las aberturas de ventilación. No instale el inversor en compartimientos sin espacio libre.</p> |
|---|

Advertencia de la Propuesta 65: Cáncer y daño reproductivo - www.P65Warnings.ca.gov.

Precaución: Electrodomésticos Recargables

Ciertos cargadores de baterías pequeñas de níquel y cadmio se pueden dañar si se conectan a un inversor de Onda Sinusoidal Modificada. Dichos cargadores funcionan eficazmente con un Inversor Cobra Pure Sine Wave. Dos tipos específicos de equipo son propensos a dicho problema:

1. Dispositivos pequeños que funcionan con baterías, tales como linternas, afeitadoras, y luces nocturnas que se pueden conectar directamente a un tomacorrientes de corriente alterna para su recarga.
2. Ciertos cargadores de baterías que se utilizan con herramientas eléctricas. Dichos cargadores cuentan con una etiqueta de **ADVERTENCIA** que indica que las terminales de las baterías tienen voltajes peligrosos presentes.

Este problema no sucede en la gran mayoría del equipo operado por baterías. La mayoría utiliza un cargador o transformador separado que se conecta al tomacorriente de corriente alterna y genera una salida de voltaje bajo. Si la etiqueta en el adaptador o cargador de corriente alterna indica que genera una salida de voltaje bajo de corriente alterna o directa (menos de 30 voltios), el inversor no tendrá problema para alimentar el adaptador de manera segura.

Garantía limitada de 2 años

Para productos adquiridos en EE. UU.

Cobra Electronics Corporation garantiza que el Inversor de Potencia Cobra, y los componentes del mismo, estarán libres de defectos de mano de obra y materiales por un periodo de dos años a partir de la fecha de compra del primer consumidor. La presente garantía podría aplicarse al primer comprador consumidor, siempre y cuando el producto se utilice en EE. UU.

Cobra reparará o reemplazará, sin cargo y a su propio criterio, inversores de potencia defectuosos o refacciones al recibirlos en el departamento de Servicio de fábrica de Cobra, acompañados de comprobante de compra del primer comprador de consumo, tal como una copia del recibo de compra.

Usted deberá pagar los cargos iniciales de envío necesarios para embarcar el producto para su servicio bajo garantía, sin embargo los cargos de devolución serán a cargo de Cobra, si el producto se repara o reemplaza bajo garantía. La presente garantía le proporciona derechos específicos legales, y también podría tener otros derechos, los cuales varían en cada estado.

Exclusiones: La presente garantía limitada no se aplica a lo siguiente:

1. A ningún producto dañado por accidente.
2. En caso de uso indebido o abuso del producto como resultado de alteraciones o reparaciones no autorizadas.
3. Si el número de serie ha sido alterado, desfigurado o retirado.
4. Si el propietario del producto reside fuera de EE. UU.

Todas las garantías implícitas, incluyendo garantías de comerciabilidad e idoneidad para un objetivo en particular son limitadas a la duración de la presente garantía. Cobra no se hará responsable de daños incidentales, consecuenciales, u otros; incluyendo, sin limitación, a daños generados por pérdida de uso o costo de instalación.

Algunos estados no permiten limitaciones en cuanto a la duración de la garantía, y/o no permiten la exclusión o limitación de daños incidentales o consecuenciales, así que las limitaciones anteriores podrían no aplicar a usted.

Para productos adquiridos fuera de EE. UU.

Comuníquese con su distribuidor local para información de garantías.

Register your new Cobra product

www.cobra.com/register

Register your product today to get:



Helpful
Product Tips



Exclusive
Offers



Expert
Advice

 **Cobra**[®]