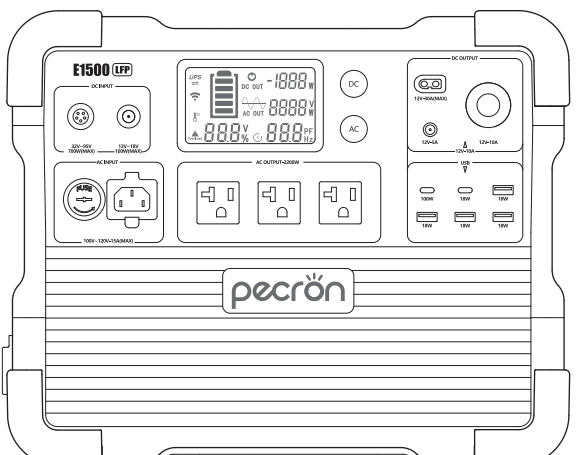
pecron

E1500 LFP

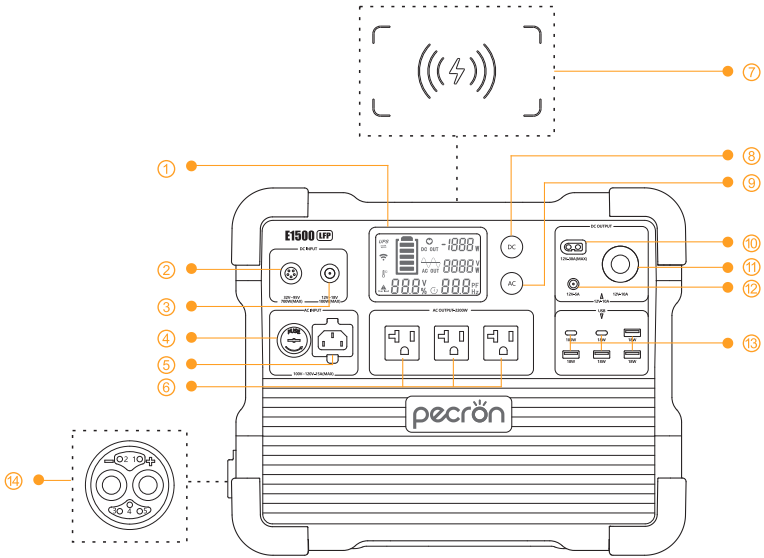


USER MANUAL

Please read the user manual thoroughly before using

support@pecron.com

FUNCTION INTRODUCTION



① LCD Display
② DC 32V~95V Charging Port
③ DC 12V~18V Charging Port
④ Fuse
⑤ AC 100V~120V Input
⑥ AC 100V~120V Output
⑦ Wireless Charger
⑧ DC 12V/USB/ Wireless Switch
⑨ AC 100V~120V Switch
⑩ DC12V XT60 Output
⑪ DC12V Auxiliary Output
⑫ DC12V(5525)Output
⑬ USB-A/USB-C Ports
⑭ Battery Expansion Port

SPECIFICATIONS

Capacity	Battery Type	Charging Time	Protections	Temperature	Dimension	Net Weight
1536Wh (51.2V30Ah)	LiFePO4 Battery Retain 80%+ Original Capacity At 3500 Cycles	0.9H to 80% 1.8H to 100%	Over-Voltage, Overheat, Overload, Short-Circuit, Self-Recovery	0℃~45℃/32°F~113°F (Charging) -20℃~45℃/-4°F~113°F (Discharging)	L14.8*W9.3*H12 in L377*W237*H305 mm	Around 40lb Around 18.5Kg

OUTPUT SPECS

AC Out *3	USB-A *4	USB-C *2	XT60 Output *1	Cigar Port *1	DC 5525 Output *1	Wireless Charger *1
Pure sine wave 100V~120V Rated 2200W	(5V,9V,12V, Max 18W)*4	(5V,9V,12V, Max 18W)*1 (5V,9V,12V,20V, Max 100W)*1	DC 12V-30A	DC 12V-10A	DC 12V-5A	Max 15W

INPUT SPECS

GX16MF *1	5521 *1	AC INLET *1
DC Charging (32V~95V) Max 700W Max 15A	DC Charging (12V~18V) Max 100W Max 7A	AC 100V~120V 1400W

UPS SPECS

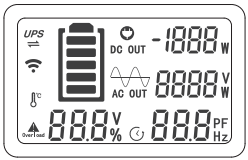
AC 100V~120V Max 15A

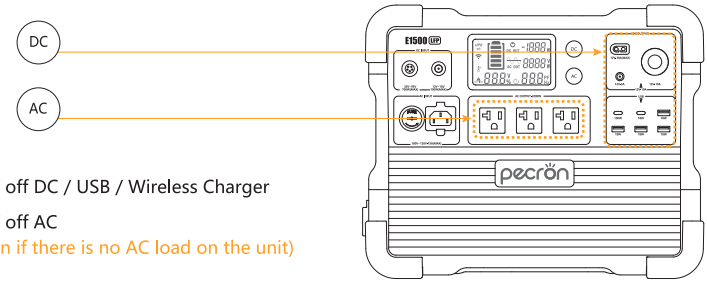
CASCADE FUNCTION

Port For Cascade *1
Cascadable EP3000-48V

support@pecron.com

HOW TO USE THE E1500 LFP



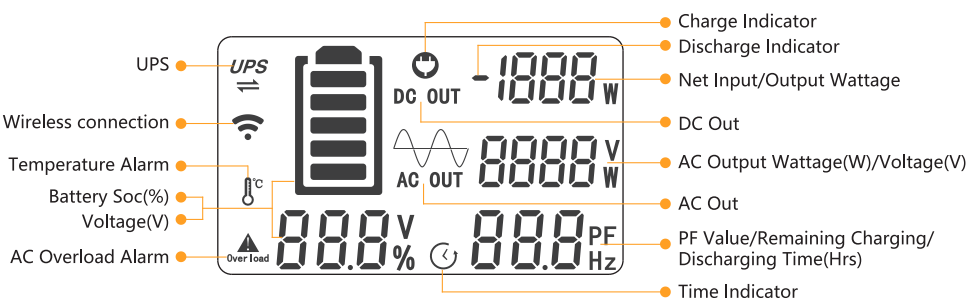


DC press and hold to turn on / off DC / USB / Wireless Charger

AC press and hold to turn on / off AC

(Please turn off the AC function if there is no AC load on the unit)

LCD SMART DISPLAY



℃ Temperature Alarm Icon

The operating temperature range of E1500 LFP is -20~45°C. If it outputs high power in a hot conditions for a long time, the high temperature alarm icon will flash, indicating that the inverter is overheated, and the AC output will be turned off.

Over load AC Overload Alarm Icon

E1500 LFP can power most devices with power consumption less than 2200 watts.

If your devices exceed 2200W, The AC overload alarm indicator will flash, The unit will stop supplying power.

UPS function prompt

When the power station has AC input and the AC output is turned on, the UPS will be turned on, and the UPS icon will always be on to remind.

Wireless function prompt

When the power station is connected to the network via WIFI, this icon will be always on to indicate.

PACKING LIST

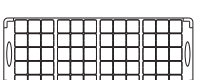
PECRON E1500 LFP*1	AC Charging Cable*1	MC4 Solar Charging Cable(LSMC4-5GX16)*1	Car Charging Cable*1	12V Alligator Clips*1

RECHARGE TIME

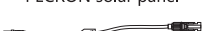
Wall Charger	Electric Generator	Car Charger
Around 1.8Hours	Around 1.8Hours	Around 18Hours

⚠ When charging with the engine, the instability of the voltage and frequency of the generator may damage the machine!

SOLAR CHARGE TIME



PECRON solar panel



MC4 Solar Charging Cable

200W	400W	600W
Recommended ★★★	Recommended ★★★★★	Recommended ☆
9~10 Hours	5~6 Hours	3.5~4 Hours

The solar charging time depends on weather conditions. E1500 LFP has a built-in MPPT charge controller that supports 32~95V, 15A PV charging up to 700W.

support@pecron.com

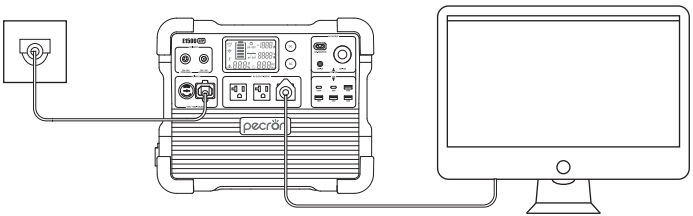
UPS FUNCTION

The E1500 LFP supports UPS function. It can provide the loads(such as computers, data centers, telecommunication equipment) near-instantaneous(within 8~20ms) protection from unexpected power interruptions of the main power supply.

Note: Not applicable to specific applications that need transfer time under 8ms, such as servers and workstations.

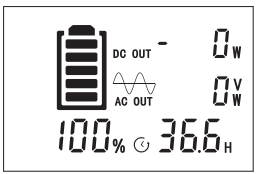
This UPS function only support protection for loads under 1800W(120V), we recommend that you only connect one device at a time to avoid overload and thus result in protection failure.

PECRON is not responsible for any devices damage or loss of data resulting from failing to follow the instructions.

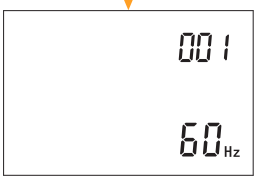


HOW TO ADJUST THE AC OUTPUT FREQUENCY VOLTAGE AND NO-POWER AUTOMATIC SHUTDOWN TIME OF E1500 LFP.

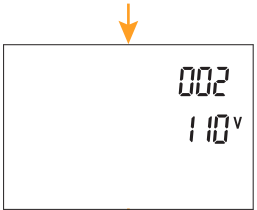
1: After powering on, long press the AC and DC switch at the same time. The battery symbol will flash and then please long press DC to enter into setting.



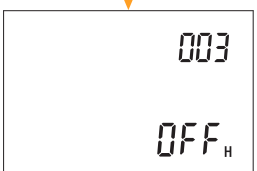
2: Item 001 is for AC output frequency. Short press DC to set 50Hz or 60Hz. Then short press AC to next item.



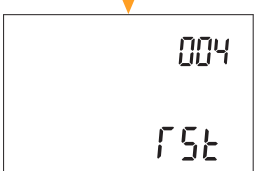
3: Enter setting of 002, this is for AC output voltage.
Short press DC to adjust voltage.
Short press AC again to next setting.



4: Enter setting of 003, the default value is OFF. It means the machine is without any setting about auto shutdown time. Short press DC to set it based on needs and short press AC to enter next step.



5: Enter setting of 004, it's for WIFI reset. The default is not reset. Short press DC, the screen will show 'RST' which means the reset command is activated.



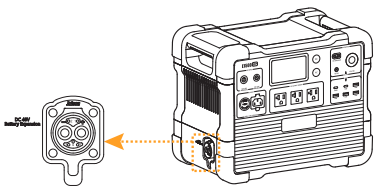
6: Short press AC to finish setting. The display will show EEP when the setting is successful.

APP FUNCTION

You can connect to this product through the PECRON APP, viewing product information, controlling the device and making personalized settings.
During connection, please long press and hold the DC+AC button together to enter the pairing mode.
iPhone users can search for PECRON in the Apple Store to download and use.
Android users can search for PECRON on Google Play to download and use.

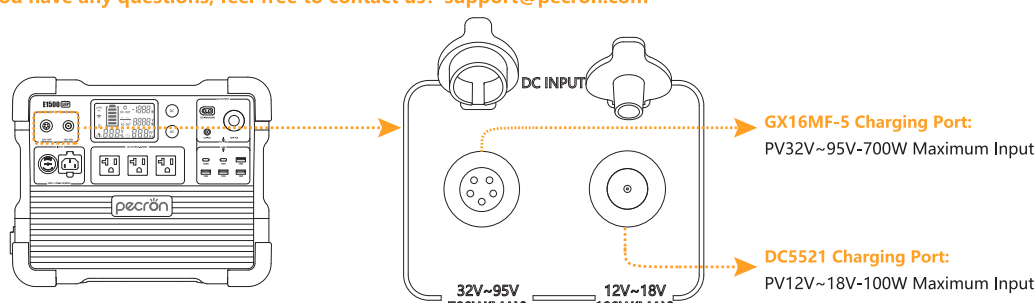
EXPANDABLE BATTERY

Special MJ32 socket can be used to cascade two EP3000-48V plus power packs.
It is strictly forbidden to use non-PECRON plus power pack, otherwise it will damage the power supply!
After cascading the power pack successfully, the display power will show, the percentage of the sum of the host and the power pack.



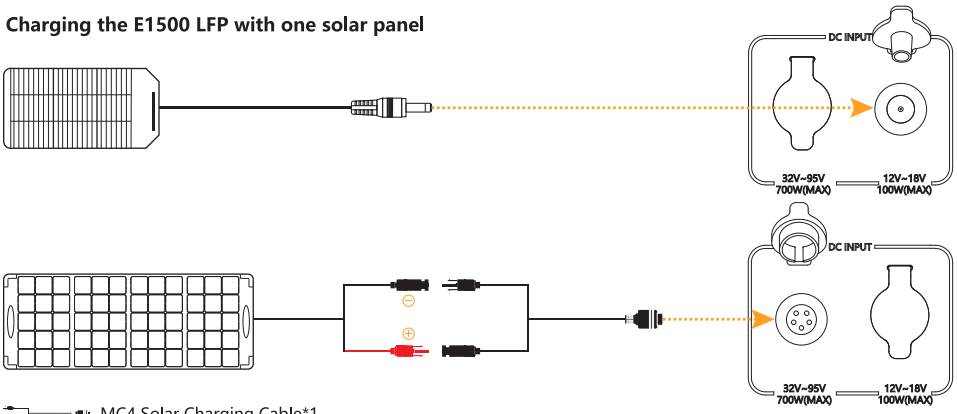
USING SOLAR PANELS TO CHARGE THE E1500 LFP

1. **DC5521 Charging Port:** PV/DC 12V~18V, 100W maximum; VOC(open circuit voltage) of solar panel must be less than 25V;
2. **GX16MF-5 Charging Port:** PV(operating voltage) range 32V~95V, 700W maximum; VOC(open circuit voltage) of solar panel/array must be less than 95V, otherwise, it will damage the unit! **Do not wire more than two 36V solar panels in series, or more than four 18V solar panels in series.**
   (18V/36V stands for Vmp, the operating voltage, of the solar panel)
3. **If you have any questions, feel free to contact us: support@pecron.com**



USING SOLAR PANELS TO CHARGE THE E1500 LFP

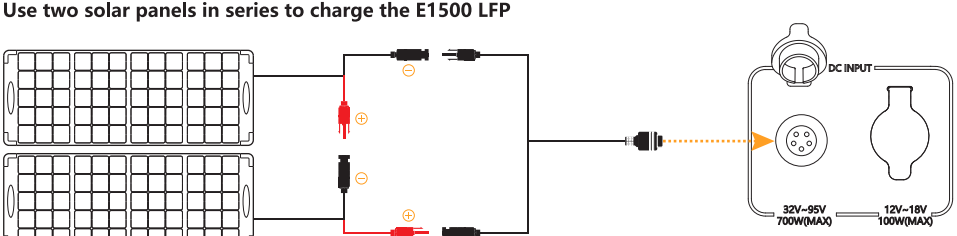
Charging the E1500 LFP with one solar panel



MC4 Solar Charging Cable*1

※ It is recommended to choose PECRON solar panels for optimal user experience! The VOC of a single solar panel should be less than 95V, and the VMP should be greater than 32V.

Use two solar panels in series to charge the E1500 LFP

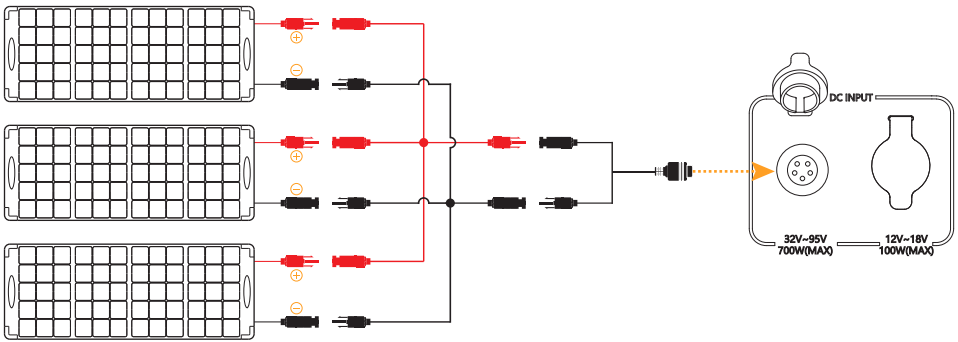


MC4 Solar Charging Cable*1

※ It is recommended to choose PECRON solar panels for optimal user experience! The VOC of a single solar panel should be less than 48V, and the VMP should be greater than 16V.

USING SOLAR PANELS TO CHARGE THE E1500 LFP

Use three solar panels in parallel to charge the E1500 LFP
(Recommended to use solar panels of the same specification model to obtain the best power.)



MC4 Solar Charging Cable*1

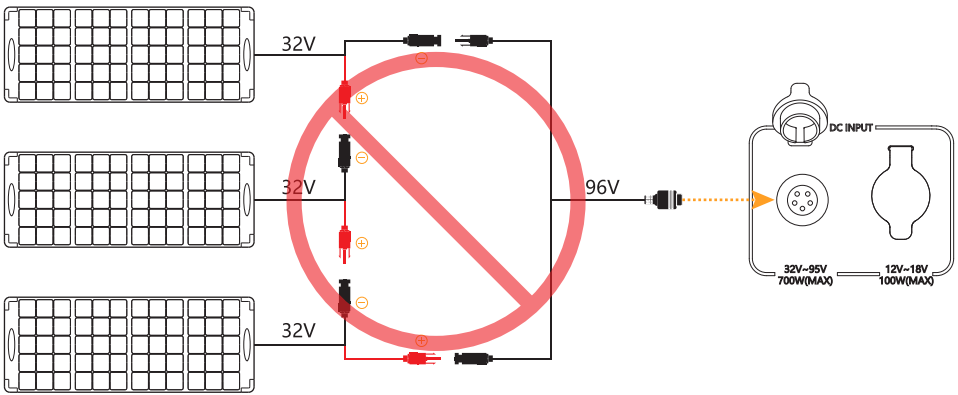
Y Branch MC4 Charging Cable(+)*1

Y Branch MC4 Charging Cable(-)*1

(NOTE: This parallel charging cable sold separately)

※ It is recommended to choose PECRON solar panels for optimal user experience! The VOC of a single solar panel should be less than 95V, and the VMP should be greater than 32V.

DO NOT WIRE THREE SOLAR PANELS IN SERIES!



※ PV(GX16MF-5) Port Only work within 32V~95V Open Circuit voltage,exceeding 95V will damage the machine.

FAQS

Q1: What kind of battery is used in E1500 LFP? How long it can last?

A: E1500 LFP utilizes high quality UL certified automotive LiFePO4 battery, it can retain 80% of its original capacity at 3500 complete charge cycles.

Q2: What devices can E1500 LFP power?

A: Please note that the AC output port can only charge or power devices that operate at less than 2200W.
DC output port can only charge or power that operate at less than 12V-30A.

Q3: Can the E1500 LFP be used as UPS?

A: E1500 LFP supports UPS function with an automatic switchover time of 8~20ms.

Q4: How to calculate the E1500 LFP running time?

A: Running Time=Total Capacity(1536Wh) * 0.85(Depth of Discharge)/Loading Power(Watts)

Q5: Does E1500 LFP have built-in MPPT charge controller?

A: Yes, there are two independent built-in MPPT charge controllers; "5521" port supports 12~18V(Max 100W) PV input, and "GX16MF" port supports 32~95V(Max 700W) PV input.

Q6: Can the E1500 LFP be charged while discharging?

A: Yes, It can be charged and discharged at the same time. In the non-UPS state, if uninterrupted use is required, the average power of charging must be greater than the average power of electricity, otherwise the battery will eventually run out and shut down.

Q7: How to store the E1500 LFP?

A: Please turn off the unit and then store it in a dry, ventilated place at normal room temperature. Do not place this unit near water sources or a wet/moist environment. For long-term storage, it is recommended to discharge the battery to 30% every three months and recharge it to 60% to sustain the battery life.

Q8: Other issues to be noted.

A: Pay attention to the ponit that the product is without waterproof function and prevent water getting into it.
Pay attention to ventilation and heat dissipation when using, and keep good ventilation at the air inlet and outlet of the product.
Do not use the product in special occasions (under the mine, gas station, etc.)

DISCLAIMER

Please read the user manual thoroughly before using this product, and keep this manual in a safe place for future reference. Failure to follow the instructions for proper set up, use, and care for the device can increase the risk of serious personal injury, death, or property damage. Once you use this device, you are deemed to have understood, recognized and accepted all terms and contents of this document. The user shall be responsible for his own actions and all consequences arising from failure to use the device in accordance with the "User Manual", or as authorized in PECRON's current product literature.

In compliance with laws and regulations, PECRON reserves all rights for final explanation, and to change these terms and conditions at any time without prior notice. In the event that any revisions are made, the revised terms and conditions shall be posted on our website immediately, please visit our website to inform yourself of any changes.

WARNING

1、 Do not place the device near heat source, such as a fire or a heating furnace.
2、 Do not immerse in any liquid, or expose the unit to rain or wet conditions.
3、 Do not use the battery in a strong static electricity or electromagnetic environment.
4、 Do not disassemble or puncture the product with sharp objects in any way.
5、 Short circuits can be caused by: vermin or pests chewing through wires; water or other fluids coming into contact with electrical wiring.
6、 It's prohibited to be used as car jump starter, only can be used to charge the car battery.
7、 Do not use accessories or parts other than those provided by PECRON. Please visit our website www.pecron.com or reach our support team for a complete list of accessories and parts.

8、 When using this product, please strictly follow the ambient temperature for use in the user manual. If the temperature is too high, the battery can potentially result in self-combustion and will burst into flames, which can cause widespread damage. If the temperature is too low, the performance of the battery will be seriously degraded, and it may even fail to meet the normal use requirements.

9、 Do not stack heavy objects on this product.

10、Do not block the air vents during use, or leave the device in a non-ventilated or dusty space.

11、Please avoid impacts, fall off, and violent vibration. Please turn off the device immediately and stop using it in the event of major exterior impact. Please fasten the unit firmly during transportation to avoid vibration and impact.

12、In the event of immersing the device into the water accident, please place the unit in a safe open area and keep away from the unit until it is completely dry. The dried unit should not be reused and should be disposed of properly according to the local regulation. If the device catches fire, use the fire extinguishing equipment in the following recommended order: water or mist, sand, fire blanket, dry chemical, carbon dioxide fire extinguisher.

13、Please wipe it with a dry cloth to clean the surface of the device.

14、Please place this device with care to prevent the product from being damaged due to fall off. If the product is damaged due to fall off, please turn off the unit immediately and place it in an open area, keep away from combustibles and crowds, and dispose of in accordance with local laws and regulations.

15、Please store this device in a place out of reach of children and pets.

DISPOSAL

1、When conditions permit, please be sure to completely discharge the battery of this product, and then put the product in the designated battery recycling box. This product contains batteries. Batteries are dangerous chemicals and are strictly prohibited from being disposed of in ordinary trash. For details, please follow local laws and regulations on battery recycling and disposal.

2、If the battery cannot be completely discharged due to the failure of the product itself, please do not dispose of the battery directly in the battery recycling box, and contact a professional battery recycling company for further disposal.

3、The battery will not be able to start after being over-discharged, please dispose of it according to the principle of disposal.

EXCLUSIONS

PECRON' s warranty does not apply to:

Misused, abused, modified, damaged by accident, or used for anything other than normal consumer use as authorized in Pecron' s current product literature.

CUSTOMER SUPPORT: support@pecron.com

WEBSITE: www.pecron.com

PECRON.LLC

FCC Caution:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 2**0** cm between the radiator and your body.

pecron

POWER IT POSSIBLE

www.pecron.com

support@pecron.com