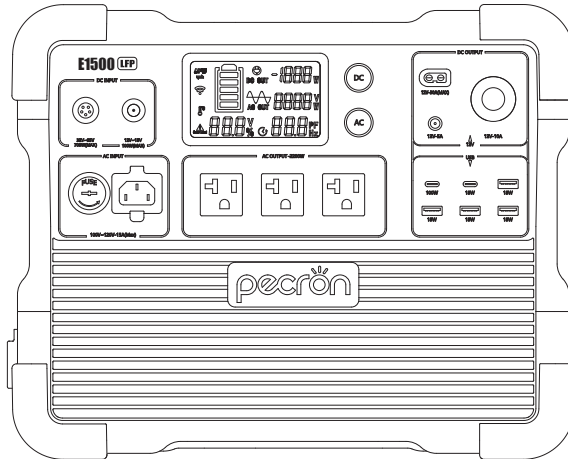




E1500 LFP

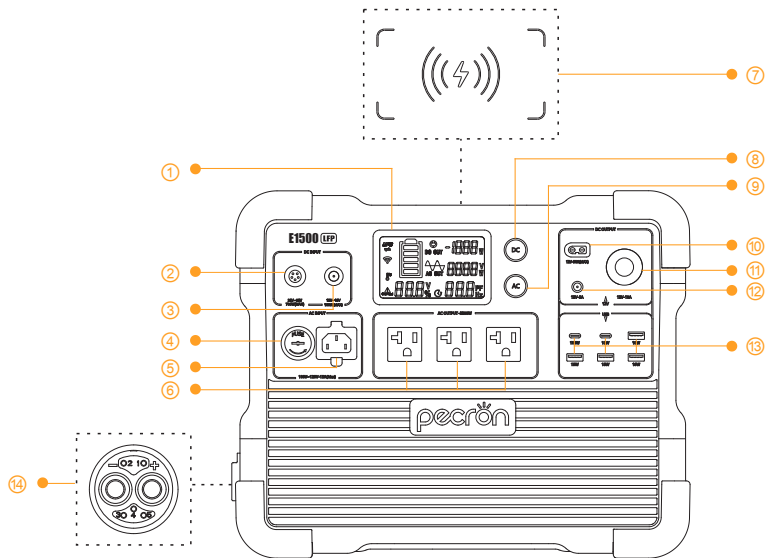


USER MANUAL

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°C~45°C/32°F~113°F (Charging) -20°C~45°C/-4°F~113°F (Discharging)	L14.8*W9.3*H12 in L377*W237*H305 mm	Around 39.7lb Around 18Kg


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

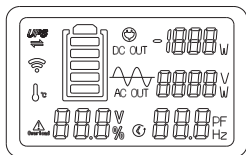
UPS SPECS


AC 100V~120V Max 15A

CASCADE FUNCTION


Port For Cascade *1
Cascadable EP3000-48V

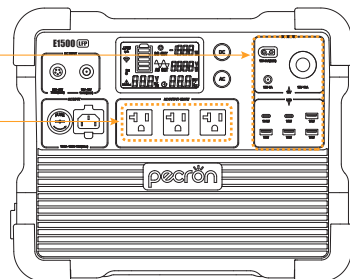
HOW TO USE THE E1500 LFP



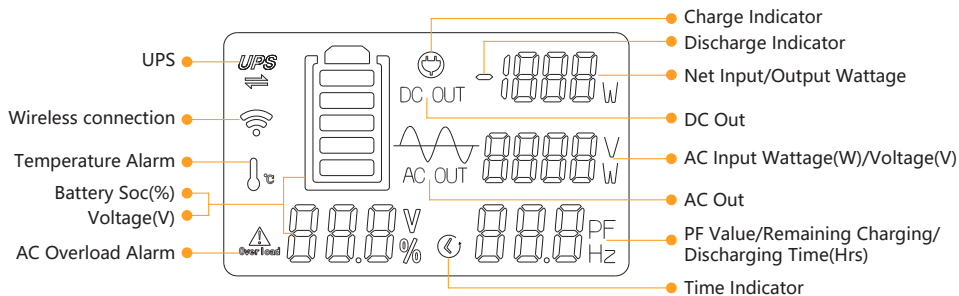
Ⓢ press and hold to turn on / off DC / USB / Wireless Charger

ⓐ 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.



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 mobile phone through Bluetooth, or connected to the network through WIFI, this icon will always be on to remind.

PACKING LIST

					
Pecron E1500 LFP*1	AC Charging Cable*1	MC4 Solar Charging Cable(LSMC4-5GX16)*1	Car Charging Cable*1	Anderson Solar 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 200W



MC4 Solar Charging Cable

200W(×1) Recommended ★★★	400W(×2) Recommended ★★★★★	600W(×3) 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.

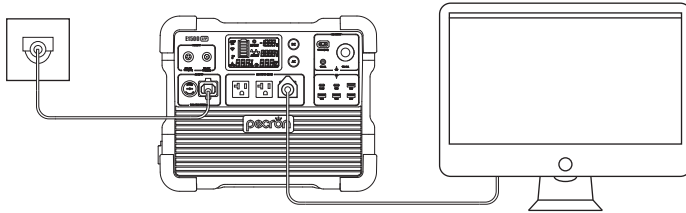
UPS FUNCTION

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.

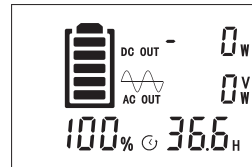
This UPS function only support protection for loads under 1800W(120V), we recommend that you only connect one device at a time to avoid overload and thus result in protection failure.

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

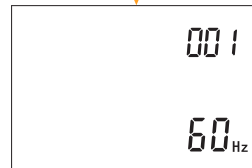


HOW TO ADJUST THE AC OUTPUT FREQUENCY VOLTAGE AND NO-POWER AUTOMATIC SHUTDOWN TIME OF E1500 LFP.

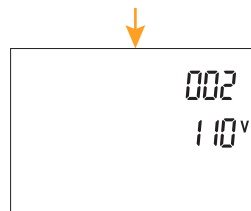
1: After power on, long press the AC + DC switch, see the battery symbol flashing, enter the setting item;



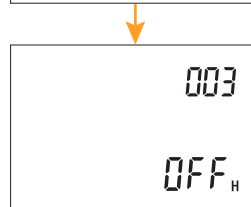
2: See 001 item setting, which is the frequency of AC output, short press AC, switch 50/60Hz;



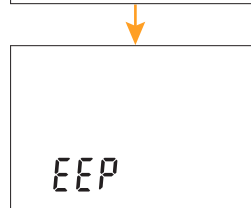
3: long press AC to enter 002 item settings, which is the AC output voltage, short press AC, switch voltage;



4: Long press AC to enter the setting of item 003. The default value is OFF, which means the automatic shutdown time of the machine without any load. Shortly press DC can increase the time or shortly press AC to decrease the time;



5: Long press AC to exit the setting. You will see a word of **EEP** if the setting is successful.

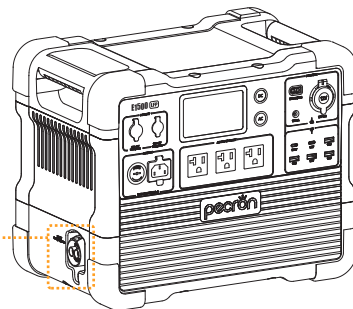
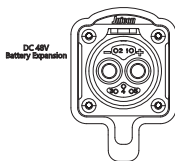


EXPANDABLE BATTERY

Two pecron EP3000-48V power packs can be cascaded using Pecron's dedicated MJ32 socket. Available up to 7680Wh.

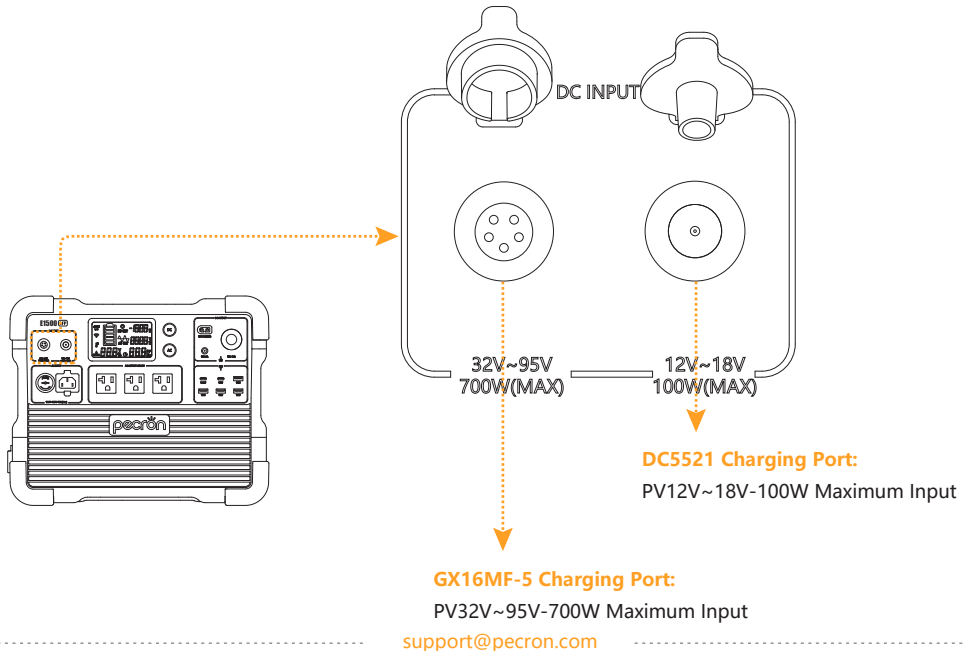
Do not expand with any battery modules other than the Pecron's, this could damage the unit!

After cascade completion, the display will show the percentage of the sum of E1500 LFP and EP3000-48V.



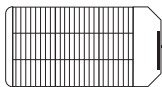
USING SOLAR PANELS TO CHARGE THE E1500 LFP

- DC5521 Charging Port:** PV/DC 12V~18V, 100W maximum; VOC(open circuit voltage) of solar panel must be less than 25V;
- 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 V_{mp} , the operating voltage, of the solar panel)
- If you have any questions, feel free to contact us: support@pecron.com**



USING SOLAR PANELS TO CHARGE THE E1500 LFP

Using the pecron 100W /18V*1 (100W) to charge the E1500 LFP

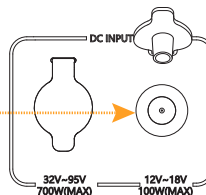


pecron 100W



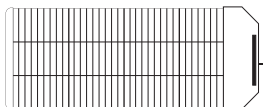
pecron 100W*1

18V



※ 18V is the operating voltage of the solar panels

Using the pecron 200W /36V*1 (200W) to charge the E1500 LFP

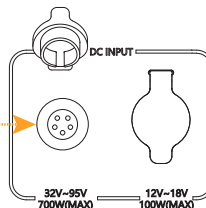


pecron 200W*1

36V

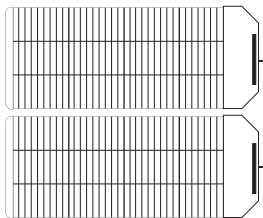


36V



※ 36V is the operating voltage of the solar panels

Using the pecron 200W /36V*2 (400W) to charge the E1500 LFP

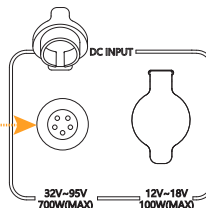


pecron 200W*2

36V



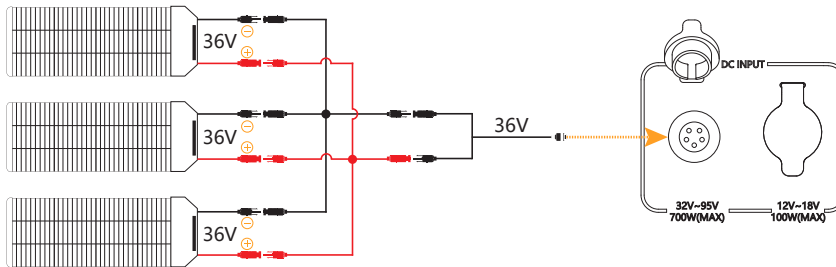
72V



※ 36V is the operating voltage of the solar panels

USING SOLAR PANELS TO CHARGE THE E1500 LFP

Using the pecron 200W /36V*3 (600W) to charge the E1500 LFP

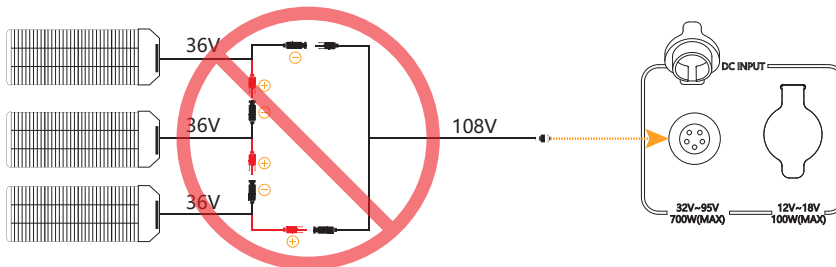


- pecron 200W*3
- MC4 Solar Charging Cable*1
- Y Branch MC4 Charging Cable(+)*1
- Y Branch MC4 Charging Cable(-)*1

(NOTE: This parallel charging cable sold separately)

※ 36V is the operating voltage of the solar panels

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: Can the E1500 LFP be charged while discharging?

A: Yes, E1500 LFP can run devices while it is being charged. The battery will eventually run out if the discharging is greater than the charging during the pass through charging.

Q5: How to calculate the E1500 LFP running time?

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

Q6: Can I use the E1500 LFP indoors and charge the E1500 LFP indoors?

A: Yes, the E1500 LFP is safe to use indoors.

Q7: 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.

Q8: 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.

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 accidentally, 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

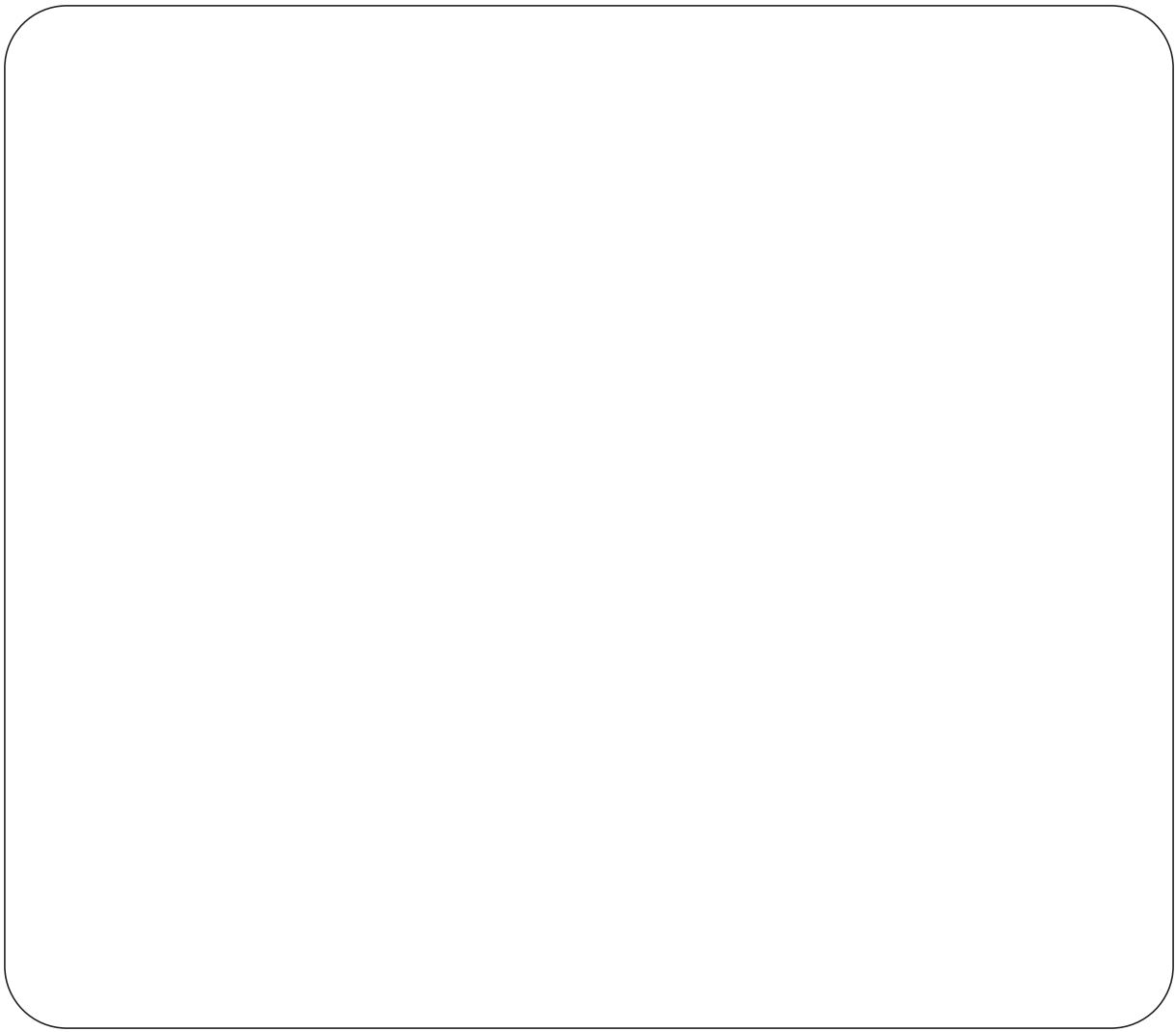
Pecron's warranty does not apply to:

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





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