Instruction manual







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Term of warranty

TARAMPS, located at Júlio Budisk highway, SN, KM 30 – Alfredo Marcondes, SP - Brazil, ZIP CODE 19180-120, warrants this product against any defects on terms of project, making, assembling, and/or with solidarity, due to project vices which cause it improper or inadequate to its original use within 12 months from the date of purchase. In case of defect during the warranty period, TARAMPS responsibility is limited to the repairing or replacement of the device of its own making.

This warranty excludes:

- •Damaged products by improper installation, water infiltration, violation by unauthorized individuals;
- •Tamper or torn warranty seal;
- •Cases in which the product is not used in adequate conditions;
- •Defects caused by accessories, modifications or features attached to the product;
- •The product with damage from falling, bumps or nature related problems (flooding, lightning, etc);
- •Warranty card is not properly filled or torn;
- •Costs involving uninstallation, reinstallation of equipment as well the shipment to the factory;
- •Damage of any kind, due to problems in the product, as well as losses caused by discontinued use of the product;

Technical assistance

For international support, check on our website:

www.taramps.com.br/en/rede-de-assistencias-tecnicas or contact direct the factory support:

Phones: +55 18 3266-4050 / +55 18 99749-3391

E-mail: service@taramps.com.br

Introduction

Congratulations on your purchase of a Taramps product.

It was developed in a modern laboratory and with the latest technology.

This manual covers all features, operations and instructions to solve any doubt that may arise during the installation. Please take some time to read it carefully in order to ensure the proper installation and the use of all benefits that this product can offer.

For questions, please call +55 (18) 3266-4050, e-mail support@taramps.com.br or visit www.taramps.com.br/es

Presentation

The automotive power supply/baterry charger PRO CHARGER 40A is a modern and efficient battery charger/ power suplly for automotive system sound, delivering 40A current continuously.

It uses a digital controller PWM (pulse width modulation) driving IGBT (insulated gate bipolar transistor) in a HALF Bridge configuration, that provide a great performance and stability.

- Robust aluminum casing, with a modern design and great heat dissipation.
- PCB (Printed circuit board) in woven glass (FR4) mounted on automatic process, ensuring quality and robustness.
- Current control: Check all time the current and limit into nominal values.
- Over temperature protection: if the temperature increase so much, the system automatic decreases the output power, avoiding overheating.
- Output short circuit protection. CAUTION: NEVER REVERSE OUTPUT POLARITY.

Key recommendations

- 1-Never uses electric extension less than recommended. The electrical outlet must suport the power specified. (see page 03/04).
- 2-This equipamment is automatic dual voltage. The input AC voltage must be above 90VAC for 110/127VAC, and above 190VAC for 220VAC.
- 3-Never open it. There is no parts to be replaced by the user.
- 4-Instal this equipamento on secured and ventilated places. Never install on sound box.
- 5- Avoid installing in locations subject to sunlight.

▲ Safety warnings

As you read this manual, pay attention to the safety warning symbols.



The "Caution" symbol is intended to alert the user to important instructions. **A** CAUTION Failure to follow instructions could result in risk to the user or damage to the product.

Taramps reserves the right to change the content of this manual without prior notice or obligation to apply the modifications to previously produced units. 02

Electrical network connections

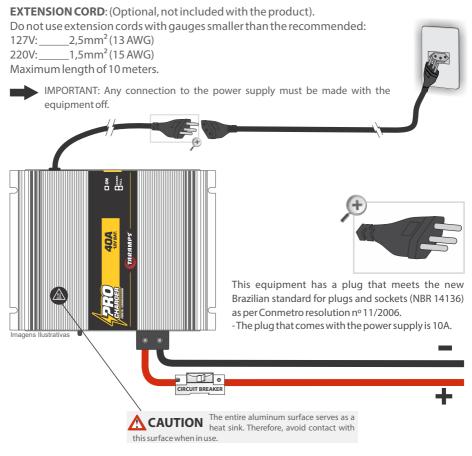
OUTLET: The socket must be sized to resist the maximum current drawn by the power supply.

A CAUTION

The user must check if the outlet/ power board is suitable for installing the product according to the usage voltage.

If the electrical installation is not adequate, the performance and efficiency of the power supply will be compromised.

We recommend that the electrical installation be carried out by a qualified professional.



A CAUTION

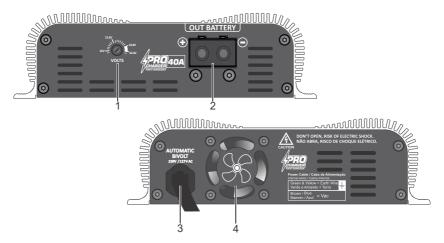
BATTERY CABLES:

Do not use cables with gauges smaller than recommended:

It is indispensable to install a circuit breaker near the power supply.

Cable: 10mm² (7AWG)

Output connector & AC power



1-VOLTS: Ajust the output voltage from 12.4V to 14.4V.

IMPORTANT: Do the voltage adjustment before of connect the loads.

For automotive battery recharge, it is recommended to set the output voltage greater than 13.8V.

2 – OUT BATTERY: Connect the positive and negative battery cabbles.

(See recommended gauges on page 09).

IMPORTANT: NEVER REVERSE BATTERY OUTPUT POLARITY.



CAUTION Before making any connections to the battery(ies), make sure you have the correct polarities.

3 - AC POWER: The PROCHARGER 40A is automatic bivolt (127/220V). See recommended specifications on 09 page.

4 - FAN: The cooling fan keep on while the PRO CHARGER 40A is AC Powered. IMPORTANT: Never obstruct the fan and leave a 5cm space on the sides.



The fans and ventilation openings are responsible for cooling the power supply when it is in use, so it cannot be obstructed.

Indicator LEDs



LED ON: The ON (led indicator) keep on while the power suplly is connected at AC POWER.

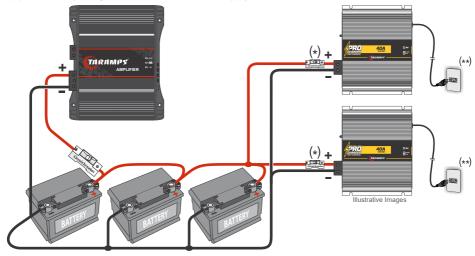
CHARG.: Indicates that the source is up to date for battery charge or sound system current.

FULL: Indicates the battery is charged/floating.

Use of parallel power supply

Many power supply/battery charger can be used on parallel mode. The output voltage of all power supply/battery charger must be at the same output voltage of the PRO CHARGER 40A. First adjust the voltage of all power suppliers/battery chargers and then do the connections.

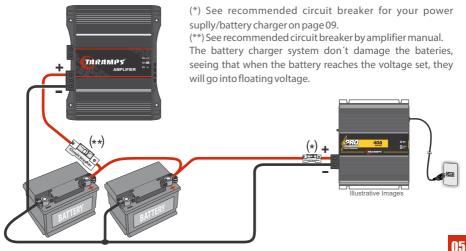
The maximum output current will be the sum of each power supply/battery charger. Example: 2 power suppliers/battery chargers PRO CHARGER 40A will supply 80A of total current.



- (*) Use circuit breaker like indicated for each power supply/battery charger.
- (**) Use individual AC Power Input as recomendated for each power supply/battery charger on page 09.

Battery charger & amplifier power

In this case, beside charging the batteries, the PRO CHARGER 40A will assist the batteries in the power supply of the amplifier.



Technical features

AC Input Voltage:	Bivolt Automatic (127 / 220VAC)
AC Input Voltage 127V:	100 ~ 140V AC
AC Input Voltage 220V:	200 ~ 240V AC
Maximum Output Current(*):	40A
Maximum Output Power Rating:	560W
Efficiency:	90%
Maximum Input Current 127V:	11A
Maximum Input Current 220V:	09A
Maximum Float (40A @14.2V):	<5%
Internal Fuse:	10A
Output Voltage:	12V ~ 14.4V ± 2%
Dimensions (WxHxD):	182 x 52 x 170mm / 7.16"x2"x6.69"
Weight:	1.20Kg / 2.64lb

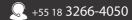
Short circuit protection: Limits the maximum short circuit current.

Thermal protection: Reduces the output power if the internal temperature rises, automatically returning to maximum power as the temperature decreases.

Notes:

(*)Nominal output current, measured with a resistive load, power supply output voltage= 14.4V and mains voltage= 127/220V.





Manufactured by: TARAMPS ELECTRONICS LTDA Tax ID: 11.273.485/0001-03 Júlio Budisk Rd, SN, KM 30 Alfredo Marcondes - SP Made in Brazil www.taramps.com.br