



Traction Charge Distribution Unit



Traction Charge Distribution Unit

This is a complementary product to the MPL50 charger that manages charging of a bank of up to 5 batteries.

It can be placed under the MPL50 charger or it can be wall mounted.

Power is provided from the MPL50.

When a battery is disconnected the unit will turn off power to the output making the leads safe from accidental shorts.

The 5 output connectors are compatible with Traction standard yellow 50 Amp lead sets.

The module input is a red 50 Amp connector. A yellow to red interface lead is provided ensuring correct connection.

The status of each channel is indicated by an LED above each connector.

Charge process:

The unit will manage the charge by sequencing around each battery, completing the bulk charge process, then it will move onto the next battery.

If a new battery is connected it will be added into the sequence.

Once all batteries have been charged to the bulk stage the unit will complete the top off charge on each battery and then go into maintenance mode.

After the bulk charge stage the batteries will be charged to around 70% of capacity. They can be removed at this stage (for faster turnaround of large batches of batteries) or left on for longer to achieve a full charge.

Traction Charge Distribution Unit

User Guide:

Only use the equipment in a dry, well ventilated environment.

Connect from the charge bank adaptor red socket to the MPL charger yellow O/P socket using the supplied lead.

Select the correct battery type on the MPL and connect the individual batteries to the charge bank adaptor yellow outlet connectors, one battery per outlet.

Ensure the MPL charger is fed from the correct main voltage then turn the MPL charger on.

The charge bank adaptor will select a battery and start the charge process. The green indicator above the connector shows which battery is being charged.

Refer to the MPL instruction for information on the charge process.



Traction Charge Distribution Unit

Indicator Status

No battery	Indicator off
Connected battery	Red Indicator on
Charging station active	Red Indicator on and Flashing green Indicator
Battery nearly charged	Flashing Red Indicator
Battery nearly charged/Station Active	Flashing Red and Flashing green Indicator

Charged battery Green Indicator on

Maintenance cycle 1 week

Max charge current: 50A

Max charge voltage 20V

Not for use outdoors

Safety Guideline

1. General Safety Precautions

SAVE THESE INSTRUCTIONS.

1.1. IMPORTANT SAFETY INSTRUCTIONS. IT IS OF UTMOST IMPORTANCE THAT BEFORE USING YOUR BATTERY CHARGER, YOU READ THIS MANUAL AND FOLLOW THE SAFETY AND OPERATING INSTRUCTIONS EXACTLY.

1.2. Use of an attachment not recommended or sold by the Battery Charger manufacturer may result in a risk of fire, electric shock, or injury to persons

1.3. To reduce risk of battery explosion, follow these safety instructions and those published by the battery manufacturer and the manufacturer of any equipment you intend to use near a battery. Review cautionary marking on these products and on the engine, and on the vehicle or equipment containing the battery.

If you are uncertain as to the type of battery you are attempting to charge, or the correct procedure for checking the battery's state of charge, contact the seller or battery manufacturer.

The charger is not intended to supply power to a low-voltage electrical system other than applications using rechargeable, flooded type batteries. Do not use the battery charger for charging dry-cell batteries commonly used with home appliances. These batteries may burst and cause personal injury and property damage.

Traction Charge Distribution Unit

WARNING

Charging a non-rechargeable battery may cause the battery to burst.

To reduce the risk of injury, only charge rechargeable flooded type batteries including maintenance free, low maintenance, or deep-cycle batteries.

WARNING

Risk of explosive gases.

Batteries generate explosive gases during normal operation and when discharged or charged.

- 1.4. Never charge a frozen battery.
- 1.5. To reduce the risk of damage to the electric plug and cord, pull by the plug rather than by the cord when disconnecting the unit.
- 1.6. Position the AC and DC leads to avoid tripping over them and to prevent damage by hood or moving engine parts. Protect from heat, oil and sharp edges.
- 1.7. Do not operate the unit if it has received a sharp blow, been dropped or otherwise damaged in any way. Take it to an approved service centre.
- 1.8. Do not disassemble the unit. Take it to an approved repair centre when repair is required. Incorrect reassembly may result in a risk of electric shock or fire.
- 1.9. To reduce risk of electric shock, unplug the charger from the AC outlet and disconnect DC output leads before attempting any maintenance or cleaning. Turning off the controls will not reduce this risk.
- 1.10. Connect and disconnect the battery leads only when the AC supply cord is disconnected.
- 1.11. Never place articles on or around the unit or locate the unit in a way that will restrict the flow of cooling air through the enclosure.
- 1.12. An extension cord should not be used unless absolutely necessary.
- 1.13. Have a damaged cord or plug replaced immediately.
- 1.14. Do not expose the unit to rain or snow. Use the charger in a dry area.
- 1.15. Risk of explosive gasses. Batteries generate explosive gasses. Charge the battery in a well-ventilated area. Do not overcharge the battery.

Traction Charge Distribution Unit

2. Personal Precautions

2.1. Warning – California Proposition 65.

Battery port and related items contain lead and lead compounds, chemicals known to the state of California to cause cancer and birth defects of other reproductive harm. Wash hands after handling.

2.2. Wear complete eye protection, clothing protection, and wear rubber soled shoes. Place damp cloth over battery to protect against acid spray. When ground is very wet or covered with snow, wear rubber boots. Avoid touching eyes while working near battery.

2.3. If battery acid contacts skin or clothing, wash immediately with soap and water. If acid enters the eye, immediately flush with cold running water for at least 10 minutes and seek medical attention. Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing or eyes

2.4. Always have someone within range of your voice, or close enough to come to your aid, when working around flooded batteries.

2.5. NEVER smoke or allow a spark or flame near a battery or engine.

2.6. Before working with a flooded battery, remove personal metal items such as rings, bracelets, necklaces, watches, etc. A flooded battery can produce a short circuit current high enough to weld such items causing a severe burn.

2.7. Be extra cautious to reduce risk of dropping a metal tool onto the battery. It might spark or short circuit the battery or other electrical part that may cause an explosion.

3. Charging a Battery.

3.1. Be sure the area around the battery is well ventilated while the battery is being charged. Gas can be forcefully blown away by using a piece of cardboard or other non-metallic material as a fan.

3.2. If it is necessary to remove the battery from vehicle to charge it, always remove the grounded terminal from the battery first. Make sure all accessories in the vehicle are off, so as not to cause an arc.

3.3. Study all battery manufacturer's specific precautions such as removing or not removing cell caps while charging and recommended rates of charge.

3.4. Add distilled water in each cell until the battery acid reaches the level specified by the manufacturer. This helps purge excessive gas from the cells. Do not overfill. For a battery without caps, carefully follow the manufacturer's recharging instructions

3.5. Make sure that the charger output voltage and battery type is correct for the battery voltage and battery type you wish to charge.

3.6. Clean the battery terminals. Be careful to keep corrosion from coming into contact with your eyes.

Traction Charge Distribution Unit

4. Connecting to a vehicle

Please follow dealer standards guidelines for connection methods.

Traction units are supplied with vehicle specific adapters that should be used at all times. Failure to use the adapters in the positions prescribed could result in excessive heat being generated in the lead set leading to premature failure of leads and low voltage output.

Output leads are connected using the polarised connectors on the unit and lead set.

The primary method for powering the support unit is via the AC power cord.

5. Warranty and Service.

For repair service, contact

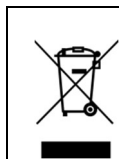
Traction Chargers
+44(0)330 022 7822
admin@tractioncharger.com

6. Manufacturer Information

Traction products are manufactured by:

Traction Chargers
Roundway Hill Business Centre
Devizes
Wiltshire
SN10 2LT UK

+44(0)330 022 7822
admin@tractioncharger.com



This symbol is used on products that contain a hazardous element and therefore cannot be thrown away in the normal way. It appears on Electrical and Electronic Equipment (EEE) as part of the WEEE (Waste EEE) directive – separate collection facilities will be set up to divert WEEE away from landfill; funded by producers and retailers of EEE

Traction Charge Distribution Unit

7. Symbols Explained:



Please refer to these instructions.

Ca/Ca	Calcium/Calcium battery
Ca/Ag	Calcium/Silver battery
AGM	Absorbent Glass Mat
GEL	Gel maintenance free battery
A	Amps

9. Technical Specification

Environmental Information	
Working Temp. °C	+0 to +40
Working Humidity	20 – 90% non-condensing
Storage Temp. °C	-40 - +85
Storage Humidity	10 – 95% RH
Input Voltage	12V DC
O/P Rated Current	50A
Dimensions WxHxD	280 x 230.5 x 260mm