



UK's Leading Towing & Touring Company

Automatic Battery Chargers

MP7108 (6V/12V 8A)



MP7112 (12V/24V 12A)



INSTRUCTION MANUAL

Keep these instructions for future reference. This instruction leaflet is also available on our website: www.maypole.ltd.uk



www.maypole.ltd.uk

SAFETY – Important Guidelines



1 RISK OF FIRE OR EXPLOSION

- Explosive gases may escape during charging. This is normal, but please follow the following guidelines:
- Do not charge near flames or sparks – do not smoke in the area.
- Ensure adequate ventilation during charging.
- Keep the charging area completely clear of combustible materials.
- Do not leave charging batteries unattended for long periods or overnight.
- Do not charge batteries in ambient temperatures exceeding 40°C; battery may overheat.
- Store and use indoors only, do not expose to rain or moisture.
- These chargers are designed to charge 6v, 12v or 24v Lead-Acid & AGM batteries with capacities as detailed in the specification table below. Charge only one battery at a time. Do not use with non-rechargeable batteries.

2 WARNING – GENERAL SAFETY

- NEVER attempt to charge a frozen battery.
- This charger should not be used as a continuous DC power source or for any purposes other than those listed – any other use will invalidate warranty.
- Ensure that cables are regularly inspected and kept in good condition.
- Never use the appliance if the charger, mains lead, plug, output leads or crocodile clips are worn or damaged.
- Replacement of the mains cable should only be carried out by the manufacturer. There are no user-serviceable parts in this product other than the fuse in the mains plug and the fuse in the output lead.
- Locate the charger as far away from the battery being charged as the cables will permit.
- Be sure to position the power cord to prevent it from being stepped on, tripped over or damaged.
- NEVER place charger directly above battery being charged, gases from the battery will corrode and damage the charger.
- The use of an extension cord is NOT recommended. If an extension cord must be used ensure that the capacity of the cable is greater than the rating of the charger
- Always disconnect mains supply before connecting and disconnecting the battery leads.
- Follow instructions for safe use – electrical discharge from batteries can be dangerous.
- Battery electrolyte is acidic and likely to cause burns. The use of safety goggles and gloves when working with lead acid batteries is strongly advised.
- Remove metal items such as rings, necklaces and watches while working with batteries.
- This appliance is not for use by a person (including children) with reduced physical, sensory or medical capabilities or lack of experience or knowledge.
- NOTE: A marine battery installed in a boat must be removed and charged on shore. To charge it on board requires equipment specially designed for marine use.



3 PREPARATION OF THE BATTERY

Refer to the vehicle manufacturer's handbook for battery maintenance and charging guidelines.

4 CONNECTION

Check the battery voltage and using the voltage selection switch select the correct output from the charger; 6v or 12v for MP7108, 12v or 24v for MP7112

Always disconnect the mains supply before making or breaking battery connections. Connect the battery clips to the battery in the following order:

1. Connect the positive charging lead (RED) to the positive post of the battery (marked +, +ve or P).
2. For vehicles with the battery still installed: connect the negative charging lead (BLACK) to the vehicle chassis (marked -, -ve or N), well away from the battery, fuel line, hot or moving parts.

For batteries removed from the vehicle: Connect the negative charging lead (BLACK) to the negative post of the battery (marked -, -ve or N).

After connecting the clips, rotate them slightly so as to remove any dirt or oxidization, thus ensuring a good contact.

4 CHARGING

WARNING! DO NOT ATTEMPT TO START THE VEHICLE WITH THE CHARGER CONNECTED TO THE BATTERY. THIS MAY DAMAGE YOUR BATTERY CHARGER.

When connected to the mains power supply; the below table illustrates each charging status:

LED Status						
Battery Voltage	6V	25% LED illuminated when correctly connected & charging	50% LED illuminated when voltage reaches 6V	75% LED illuminated when voltage reaches 6.5V	FULL LED illuminated when voltage reaches 7.2V	Once 7.4V is reached the charger will enter float mode, maintaining optimum battery condition. Charger will revert to normal charging mode if voltage falls below 6.6V
	12V	25% LED illuminated when correctly connected & charging	50% LED illuminated when voltage reaches 12V	75% LED illuminated when voltage reaches 13V	FULL LED illuminated when voltage reaches 14.4V	Once 14.8V is reached the charger will enter float mode, maintaining optimum battery condition. Charger will revert to normal charging mode if voltage falls below 13.2V
	24V	25% LED illuminated when correctly connected & charging	50% LED illuminated when voltage reaches 24V	75% LED illuminated when voltage reaches 26V	FULL LED illuminated when voltage reaches 28.8V	Once 29.8V is reached the charger will enter float mode, maintaining optimum battery condition. Charger will revert to normal charging mode if voltage falls below 26.4V



5 WHEN CHARGING IS COMPLETE

Switch off the mains supply, unplug the charger and disconnect the clips in the following order:
Remove the **negative (BLACK lead) first**. Then disconnect the **positive (RED lead)** from the battery.

6 TROUBLE SHOOTING

Switch off the charger, check that the clips are correctly connected to the battery and making a good contact. Check the output fuse situated on the positive output lead of the charger (reverse polarity connection will cause this to blow). The only other user serviceable part is the mains fuse fitted inside the mains plug. The battery must be in good condition and capable of accepting a charge. Check that the mains supply is connected, switch "ON" the charger and check that the red "25%" led is illuminated.

7 TECHNICAL SPECIFICATIONS

Model No.	Rated Input	Voltage	EN Rated Output	Peak Output	For Battery Capacity	Fuse Mains Plug	Output Fuses
MP7108	230V AC 50Hz 96W	6V DC	6V DC 5.1A	8 Amp	20Ah – 100Ah	3A	7.5A
		12V DC	12V DC 5.1A	8 Amp	20Ah – 100Ah	3A	7.5A
MP7112	230V AC 50Hz 154W	12V DC	12V DC 8A	12 Amp	20Ah – 160Ah	3A	10A
		24V DC	24V DC 4.5A	6 Amp	20Ah – 160Ah	3A	10A

We declare that this product conforms to the following standards EN60335-1, EN60335-2-29, EN55014, EN61000, and the following Directives 73/23 CEE, 93/68 CEE, 2004/108/EC, 2002/95/EC (ROHS)

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