

# INSTRUCTION MANUAL

## TriTask-40 Series

### 3-Step Lead/Acid Plug-Top Battery Charger



Version	MEC Art.-Nr.	Version	MEC Art.-Nr.	Version	MEC Art.-Nr.
<input type="checkbox"/> 6V - 2.7A	111-03272-130	<input type="checkbox"/> 12V - 1.5A	111-06152-130	<input type="checkbox"/> 24V - 1.5A	111-12152-130
<input type="checkbox"/> 6V/12V - 2.7A	111-06272-131	<input type="checkbox"/> 12V - 2.7A	111-06272-130		

Dear Customer!

Thank you very much for your trust in us and our product.  
Please read these operating instructions carefully **before** start of operation.

MEC-Energetechnik GmbH

#### 1. Safety Rules and General Warnings

- ATTENTION: 100-240 Volts AC voltage, device is not suitable for children – danger of life!!
- ATTENTION: The charger is exclusively designed for 6V/12V/24V rechargeable lead /acid batteries and must not be used for other purposes.
- ATTENTION: Please consider the charging instructions from the battery manufacturer before charging!
- Never place the device on top of the battery while charging!
- EXPLOSION RISK! Avoid sparks or open flames while charging!
- Use the device only in dry rooms and protect against dust, heat (>40°C) and humidity (>80% rel.)
- Protect against direct solar radiation.
- No fluids of any kind must get into the device.
- In case of obvious damage or malfunction immediately disconnect the device from mains supply and protect against unintended reconnection
- Clean with a dry cloth only.
- DO NOT OPEN! Repair work must only be accomplished by authorized companies or specialized technical staff.
- Disconnect from mains before connecting or disconnecting the battery.
- Do not recharge non-rechargeable batteries.

## 2. General Information

This series of plug-top chargers delivers the power and performance one would expect only of devices of much bigger size. Despite its small size, the 3-stage characteristic of this charger will still deliver the energy necessary to fully re-charge and maintain moderately sized batteries, within a reasonably short period of time.

This plug-top battery charger with its compact plastic enclosure is ideal for maintaining your batteries in top condition. After the charging process has finished the charger can remain connected (e.g. in wintertime) and the charger automatically switches to float charging what provides a fully charged battery still after some months.

## 3. Special Features

- 3-step charging technology with automatic float charging
- Convection cooled
- High frequent switching technology
- Wide range input 100-240VAC
- 3 colour-LED to indicate operation and charging status
- Short circuit and reverse polarity protection
- Selection switch to choose 6V or 12V (111-06272-131 version only)
- Automatic float charging

## 4. Scope of delivery

- |   |  |
|---|--|
| 1. Country specific plug                | 4. yellow charge-control-LED                           |
| 2. Charging cable with alligator clamps | 5. red charge-control-LED                              |
| 3. Green charge-control-LED             | 6. selector switch 6V/12V (111-06272-131 version only) |



## 5. Operation

### ATTENTION:

- Before Operation please make sure that neither the power cable nor the charger including the charging cable show any damage and make sure that the mains supply complies with the specification.
- Please consider the charging instructions from the battery manufacturer before charging.

### I. Connect the charger to the battery:

First make sure that the charger is disconnected from the mains supply.

#### Variant a - battery is built in the vehicle:

First connect the positive terminal (+) of the battery with the red clamp of the charging cable (+).

After that, connect the clamp of the black charging cable (-) with the negative terminal (-) of the battery or the car body of the vehicle. (Please consider details from battery- and vehicle manufacturer !!)

Please make sure that the connection is done in a safe distance to the fuel line.

#### Variant b – battery is not built in the vehicle:

First connect the positive terminal (+) of the battery with the red clamp of the charging cable (+).

After that, connect the negative terminal (-) of the battery with the clamp of the black charging cable (-).

### II. Start charging:

- a) Choose the correct charging current via selector switch
- b) Plug in the charger into the power socket.

The charging process starts automatically and runs through the following three charging phases:

#### 1. Charging step: constant current (CC)

This charging step is indicated by the **red charge-control LED** (5).

During the constant current phase, the battery is being charged to 80% of its capacity.

#### 2. Charging step: constant voltage (CV)

This charging step is indicated by the **yellow charge-control LED** (4).

During the constant voltage phase the battery is being charged to its maximum capacity.

#### 3. Charging step: float charge (battery is fully charged)

This charging step is indicated by the **green charge control LED** (3).

As soon as the battery has reached its full capacity, the charger switches into float-charge mode. The charger can now be disconnected from the battery (see pt. III ) or remain at the battery in float- charge mode. This guarantees a full battery at any time and therefore an instant operational readiness.

### **III. Disconnect the charger from the battery:**

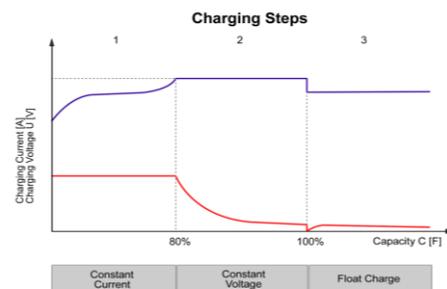
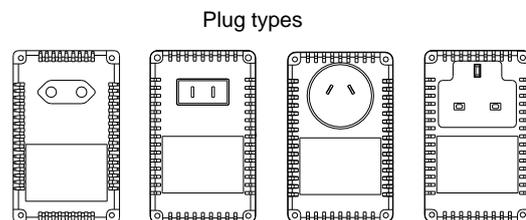
- a) Disconnect the charger from the mains supply;
- b) Disconnect the charger from the battery;

#### Charging advice:

- If the charger will be disconnected from the battery during the charging process, please disconnect the charger from the mains supply immediately. For starting a new charging process please comply with the relevant points (see point I)
- For increasing the lifetime of a battery please do not stop a charging process before the automatic switching to float charge mode (3<sup>rd</sup> charging step).

## 6. Technical Specifications

Input	
Input Voltage	100 – 240VAC
Frequency	50/60Hz
Primary connection	Country specific plug
Power max.	max. 50W
Output	
Output nominal	6/12/24 VDC (depends on model)
max. charging current	0.5 - 2.7 A (depends on model)
DC connection	1,8m charging cable w. alligators
Efficiency	> 84%
Thermal	
Temperature range	0°C to 40°C
Cooling	convection
Miscellaneous	
Recommended battery types	Wet-, Gel- and AGM- batteries
Protection	Reverse polarity and short-circuit



	MEC Art.-ID	Battery voltage [nominal]	Charging step 1 [I]	Charging step 2 [U]	Charging step 3 [U]
Dimensions: (LxWxH) 106x65x46 mm weight: 295g	111-03272-130	6V	2.7A	7.3V	6.9V
	111-06152-130	12V	1.5A	14.7V	13.8V
	111-06272-130	12V	2.7A	14.7V	13.8V
	111-12152-130	24V	1.5A	29.4V	27.6V
selector switch 6V / 12V	111-06272-131	6V / 12V	2.7A	7.3V / 14.7V	6.9V / 13.8V

## 7. Advice for Disposal



It is prohibited to dispose the charger into the house- and residual waste removal (WEEE-Richtlinie 2002/96/EG und EAG-VO) , it must be disposed at the according collection points. For the protection of our environment please inform yourself at your communal administrative agency about your nearest disposal point.



The charger equates to the RoHS-directive 2002/95/EG, for the restriction of the use of certain hazardous substances in electrical and electronic equipment.



## 8. Disclaimer of Warranty

- The warranty period (see our GTC) starts with device being dispatched by the manufacturer. The MEC-Energietechnik GmbH is accepting liability by guaranteeing to working hours and spare parts only.
- For damages caused by non-observance of the operating instructions, inappropriate start up or handling as well as reconstructions and modifications of the device, the warranty claim expires and MEC-Energietechnik GmbH assumes no liability for consequential damage to property or persons!

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