

Simplified method of calculation for the BOOST current :

To take into :

- battery capacity (Ah)
- factory of mean consumption 1.2
- duration of contractual charge 10 h

Battery capacity * 1.2 / 10 = Charger size

Model	Battery Voltage	BOOST current	Dimensions (mm.)	Weight (g.)	Battery capacity
M 1206-xx-xxxx	12V	06A	150*110*55	850	40 to 80 Ah
M 1210-xx-xxxx	12V	10A	150*110*55	850	80 to 120 Ah
M 2405-xx-xxxx	24V	05A	150*110*55	850	35 to 75 Ah

EX WORKS ADJUSTING:

MODEL	Switch position	Battery type	12 V		24 V	
			U boost	U float	U boost	U float
1 CURVE		classic lead acid	14,2V	13,3V	28,4V	26,6V
2 CURVES	B	classic lead acid	14,2V	13,3V	28,4V	26,6V
	A	seal lead acid / GEL	14,4V	13,9V	28,8V	27,8V

FOR THE 2 CURVES MODEL, THE FACTORY SET-UP IS CURVE B



In case of polarity reversal when connecting the battery cables, the fuse will blow. You must replace it with the same rating.



WARNING !

The charger may become very hot during the BOOST phase. DO NOT TOUCH THE BODY OF THE CHARGER

2 YEARS WARRANTY.

This device is warranted for a period of 2 years, including parts and labour, unless it has been in correctly installed.



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MICRO-TEC

SWITCH MODE BATTERY CHARGER 80W - 120W / 12V - 24V



USER INSTALLATION GUIDE

REFERENCE TECSUP	P (W)	U (V)	I (A)	MODEL	OUTPUTS	NUMBER OF CURVING CHARGE
M 1206 11 0000	80	12	06	input wires/output wires	1	1
M 1206 11 1000	80	12	06	input CEI/output wires	1	1
M 1210 11 0000	120	12	10	input wires/output wires	1	1
M 1210 11 1000	120	12	10	input CEI/output wires	1	1
M 1210 12 0000	120	12	10	input wires/output wires	1	2
M 1210 21 0000	120	12	10	input wires/output wires	2	1
M 1210 22 0000	120	12	10	input wires/output wires	2	2
M 1210 22 1000	120	12	10	input CEI/output wires	2	2
M 1210 22 1100	120	12	10	input CEI/output terminal	2	2
M 2405 11 0000	120	24	5	input wires/output wires	1	1
M 2405 11 1000	120	24	5	input CEI/output wires	1	1

Note Technique 1502N096

INSTALLATION

FITTING DETAILS

The charger can be mounted vertically or horizontally, while maintaining a free area of approximately 15cm (6 ") all around. This allows for optimal cooling with air circulation but be sure to provide a cold air input on the bottom and a hot air escape point on the top.

So as to compensate for abnormal overheating, the charger will automatically regulate the output current.

In case of severe overheating (>60°C), the charger will stop. Disconnect the mains power and wait aprox. 10 minutes to allow temperature to decrease, then reconnect the unit.

CONNECTING THE BATTERIES : (depending on the pattern).

Connect the positive battery to the **red** wire, and the negative to the **black** wire. Do the same for battery n°2, in case of a charger with 2 outputs. (The negative battery terminals must be connected together in common parallel).

Battery fuse :

Temporised glass fuse 5x20mm
10A

WARNING : Check carefully the tightness of the battery connections to the charger (risk of overheating if not properly tightened).

CONNETING THE MAINS (depend on the pattern)

The charger operates on mains 230Vac – 50Hz/60Hz via the included power lead

DISPLAY

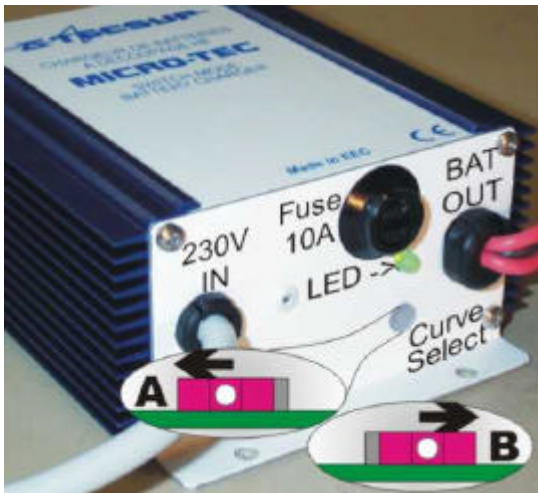
The working of the charger is signaled with an LED sequence as follows.

Red

"Charge" Led : This led is lit as long as the battery is in the boost / absorption phase.

Green

"100%" Led : This led is lit when the battery is fully charged



Input voltage 230V ~ - 15% / + 10%

Output voltage U bat +/- 2%

Natural cooling

Operating temperature -10/+45°C

Storage temperature -20°C/+70°C

User safety NF EN 60335-1 and EN 60335-2-29

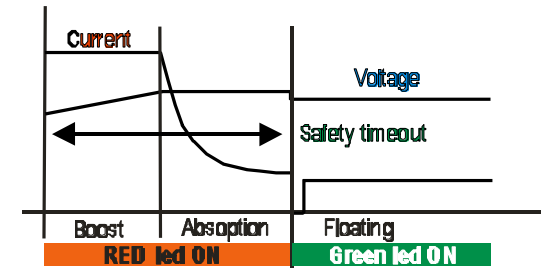
Electromagnetic Compatibility (EMC) EN50081-1, EN50082-1, EN55011 class B, EN 60555-2, EN 60555-3

Frequency 50/60Hz

Output current I bat +/- 10%

Protection index IP 54

General form of the charging curve



CHARGING CURRENT :

The nominal current shown in case of nominal voltage is the mean current supplied by the charger. It may be used continuously.

SAFETY DEVICES

ELECTRONIC PROTECTION against:

- Output short-circuits
- Battery discharge in the event of mains failure

PROTECTION BY FUSE against:

- Mains input overload.
- Battery polarity inversion (exterior fuse)

ANTI-CORROSION: casing in aluminium with anti-corrosion paint.

ANTI-IMPACT : resistance to impacts in normal use.

CHARGING CURVE SELECTION

Remove the plastic round cover (see curve select on the picture to the right) and using a sharp pen toggle the sliding switch (red) to the position you wish:

A = Seal Lead Acid / Gel type battery UBoost = 14.4V (28.8V) / UFloat = 13.9V (27.8V)

B = Classic Lead Acid UBoost = 14.2V (28.4V) / UFloat = 13.3V (26.6V)

(For a 24V charger)