



IPMate 3 Step 12V Lead Acid Battery Charger/Optimiser



2 models of 3 Stage Automatic 12V Lead Acid Battery Chargers, with charging current(s) of 1.0A or 1.9A, used for charging and keeping batteries fully charged for long periods of time, mainly used for motorcycles, Mopeds, Boats, Lawnmowers, small vehicles, etc which are left unused. Supplied with Mains Lead, Crocodile Clips & Slide Connectors with ring terminals

- 3 Stage Control (Fast/Normal/Float)
- Short Circuit Output Protected
- Over Temperature Protection
- Reverse Polarity Protected
- Over Voltage & Current Protected
- Compliant to safety standards
- LED Charge Status Indicator Included
- RoHS & CE Directive Compliant

Charging Current	Dim. (LxWxH)mm	Weight (Kg)	I/P Volts	Recommended Battery Capacity
1.0A	183 x 79.0 x 69.0mm	1.1Kg	220~240V AC	3AH ~ 16AH
1.9A	183 x 79.0 x 69.0mm	1.6Kg	220~240V AC	6AH ~ 32AH

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3 Step 1.0A Charger for topping-up 12V Lead Acid Batteries

33PC170-1

RoHS
COMPLIANT



1. Input Voltage:

220~240V AC 50Hz with UK Plug

2. Protection:

Over-Temperature Protection

Over-Current Protection

Over-Voltage Protection (112~130% of output voltage)

Reverse Polarity Protected

3. Connector cable(s):

33PC170-1 is equipped with two sets of cables, covering almost all the different battery terminal types. 2 types of connectors are supplied as standard:

(A) Crocodile style clamps

(B) Slide style-coupling rings.

4. Three Stage Charging System (for Lead Acid Batteries):

The 33PC170-1 is designed with three stages charging characteristics.

1st Stage: Constant Current Charging

2nd Stage: Constant Voltage (High Voltage) charging

3rd Stage is Constant Voltage (Low Voltage) charging - Trickle Charging

5. Over-Charging Protection Feature:

Our battery chargers will not turn off when the battery is fully charged.

The indicator will switch from Orange into Green indicating Float charging status.

Under 'Float' charge conditions, the battery will remain topped-up continuously without over-charging and gassing problems

6. LED indicator:

There are three LED indicators on 33PC170-1, indicating charge status

Red LED: Power On

Orange LED: Charging

Green LED: Charged

7. Approvals & Warranty:

The product is RoHS & CE approved and comes with a 12 months warranty included

3 Step 1.9A Charger for topping-up 12V Lead Acid Batteries

33PC170-2

RoHS
COMPLIANT



1. Input Voltage:

220~240V AC 50Hz with UK Plug

2. Protection:

Over-Temperature Protection

Over-Current Protection

Over-Voltage Protection (112~130% of output voltage)

Reverse Polarity Protected

3. Connector cable(s):

33PC170-2 is equipped with two sets of cables, covering almost all the different battery terminal types. 2 types of connectors are supplied as standard:

(A) Crocodile style clamps

(B) Slide style-coupling rings.

4. Three Stage Charging System (for Lead Acid Batteries):

The 33PC170-2 is designed with three stages charging characteristics.

1st Stage: Constant Current Charging

2nd Stage: Constant Voltage (High Voltage) charging

3rd Stage is Constant Voltage (Low Voltage) charging - Trickle Charging

5. Over-Charging Protection Feature:

Our battery chargers will not turn off when the battery is fully charged.

The indicator will switch from Orange into Green indicating Float charging status.

Under 'Float' charge conditions, the battery will remain topped-up continuously without over-charging and gassing problems

6. LED indicator:

There are three LED indicators on 33PC170-2, indicating charge status

Red LED: Power On

Orange LED: Charging

Green LED: Charged

7. Approvals & Warranty:

The product is RoHS & CE approved and comes with a 12 months warranty included