

## Professionally approved products. Datasheet

### Lead Acid Charger

RS Stock number 482-2084



**This battery charger is designed for use with Lead Acid or VRLA battery packs as specified in table (A).**

## Safety

Batteries can be dangerous, do not place metallic objects across the terminals of a battery or battery pack. When handling batteries remove all loose jewelry, watches and rings. Take care not to place tools across the terminals. Only specified types of battery should be used with this unit as charging others may cause damage and result in serious injury.

**Before using this unit, ensure the following: -**

Unit is physically checked, in event of any damage to unit please return to supplier.

Correct Voltage AC input is selected where appropriate.

Read and following "How to use" guidelines covered in this instruction document.

It is recommended that the batteries/battery packs are at ambient temperature before starting charge (20°C)

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### FEATURES:

- **6 different voltage outputs**  
2V, 4V, 6V, 8V, 10V and 12V @ 1A
- **Fully automatic charge regulation**
- **Free standing desk top design**
- **Switchable input voltage**  
110-120VAC and 220-240VAC
- **Current Limited**

### Product Specification

#### Power Supply:

nominal operating voltages	110-120VAC and 220-240VAC (switchable)
nominal operating frequency	50-60Hz

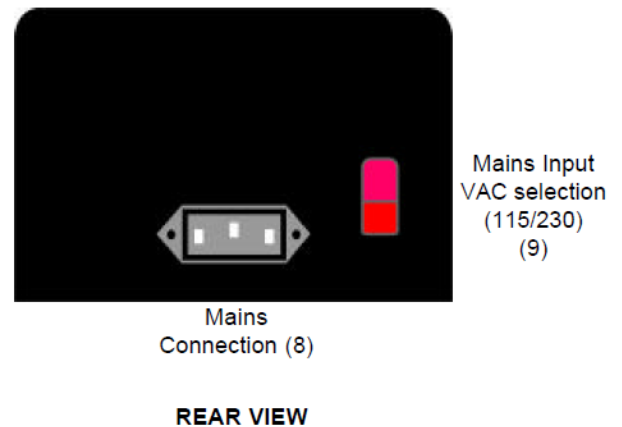
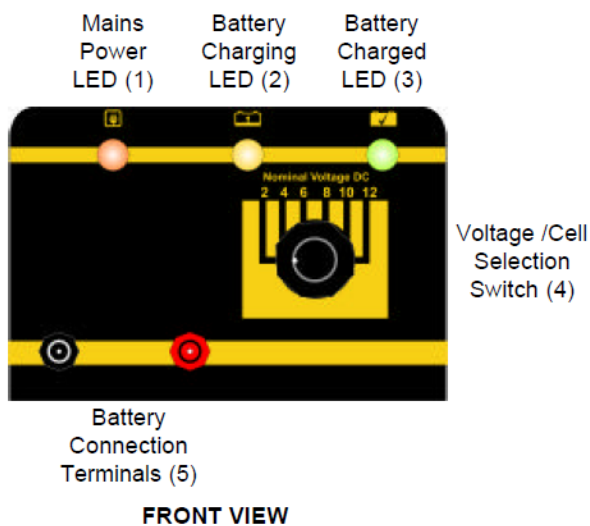
#### DC Charge Output:

output current ADC	1
nominal voltage VDC	2 - 12V
line regulation	< 1%
load regulation	< 1%
output ripple	< 1%
float voltages	see table overleaf

#### General:

operating temperature	-10 to +55°C
overall dimensions (w x h x d)	108mm x 90mm x 180mm (4.25" x 3.5" x 7.1")
weight	1.6Kg (3.52lbs)
EMC emission / immunity	EN 58801-2 / EN50082-2

### Connections & Controls



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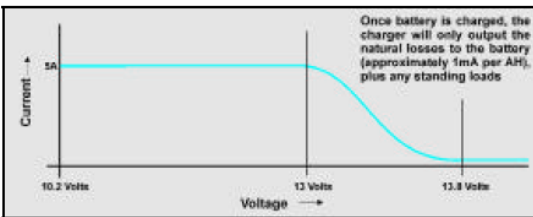
### How to Use

Ensure the mains input voltage switch (9) is selected for the correct voltage.

Connect an IEC lead to the unit (8) and plug into the mains, switch the mains on and check the mains power LED (1) illuminates, then switch off unit at mains.

Ensure that the battery pack is either dry Vented or VRLA (sealed) lead acid rechargeable only. Confirm either the number of cells or nominal voltage of the battery pack from Table (A) on page 1 and adjust voltage/cell selection switch (4) to suit.

**Table (B) - Typical charging characteristics**



Connect the +Ve and -Ve terminals (5) to the battery/battery pack  
**IMPORTANT: CHECK POLARITY OF BATTERY CONNECTIONS**  
**REVERSE POLARITY CONNECTION WILL DAMAGE BATTERIES**

Switch on at mains, the mains LED (1) and Battery Charging LED (2) should be illuminated. When the battery pack is fully charged the Battery Charged LED (3) should be illuminated and the Battery Charging LED (2) should switch off. Once fully charged the battery packs will receive a float charge at specified voltage in Table (A), keeping batteries in prime condition ready for use.

Table (B) provides a typical recharge graph showing the charger will give a constant current output up to its knee point (13 Volts on a 12 Volt LA) and then ramp down to its float voltage as battery becomes fully charged.

Before disconnecting the battery pack from charger, switch off at mains, disconnect battery pack and then disconnect charging leads from charger.