

SLA-4 Range of Automatic Battery Chargers



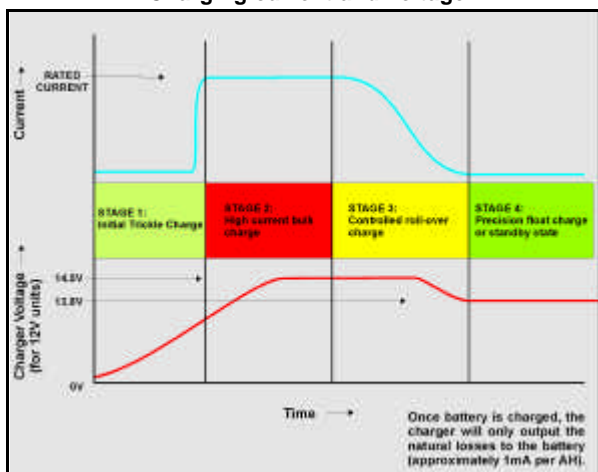
Description

The SLA4 is a highly efficient high performance charger. The very smooth output is configured for accurate fast charging, optimum battery life and reliability. Due to its very smooth output (< 1% ripple) the charger is suitable for sealed or vented batteries. e.g. Lead Acid sealed (VRLA), vented and plant cells.

4 Stage Operation

The output current of the charger is limited to a low value until the battery reaches a specific voltage, preventing high charge current if a cell is shorted. Above this level the bulk charge phase starts supplying maximum current to the battery. This is indicated by the yellow "bulk" LED. This continues until the bulk voltage is reached when the current will start to fall. When it has fallen to 10% of the maximum bulk current the float phase will begin, indicated by the green "end" LED. (see *charging graph below*)

Charging current and voltage



Electrical Connection

AC input is via a 3 core input lead and DC output connection is a fly lead terminated with colour coded crocodile clips.

- **High rate charging:**
1A @ 6V or 12V - 600mA @ 24V
- **Fully automatic charge regulation**
- **Light compact desk top design**
- **4 stage operation**
- **VRLA or vented lead acid**
- **Low ripple**

Product Specification

Power Supply:

nominal operating voltages	110-120VAC (115 units) 205-254VAC (230 units)
nominal operating frequency	50-60Hz

DC Charge Output:

output current ADC	600	1
nominal voltage VDC	24	6 or 12
line regulation	< 1%	
load regulation	< 1%	
output ripple	< 1%	
float / boost voltages	see table overleaf	

Output Connection and Indication:

LED indication	Float stage and Bulk stage
Output lead	1.5M lead with crocodile clips

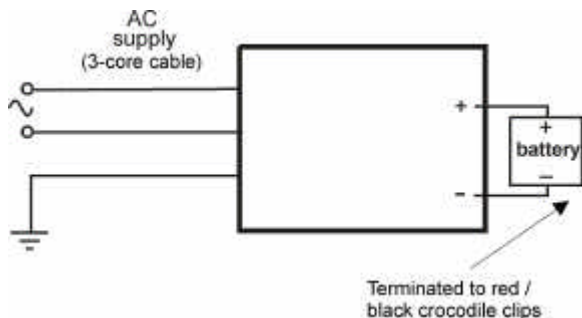
General:

operating temperature	-10 to +55°C
overall dimensions (w x h x d)	85mm x 84mm x 67mm (3.3" x 3.3" x 2.6")
weight	0.56Kg (1.24lbs)
EMC emission / immunity	EN 58801-2 / EN50082-2

Warranty

A one year limited warranty on materials and workmanship is given with this product. Details are available upon request.

Electrical connection



INPUT CONNECTION

2M flylead to bare wire connection.

OUTPUT CONNECTION

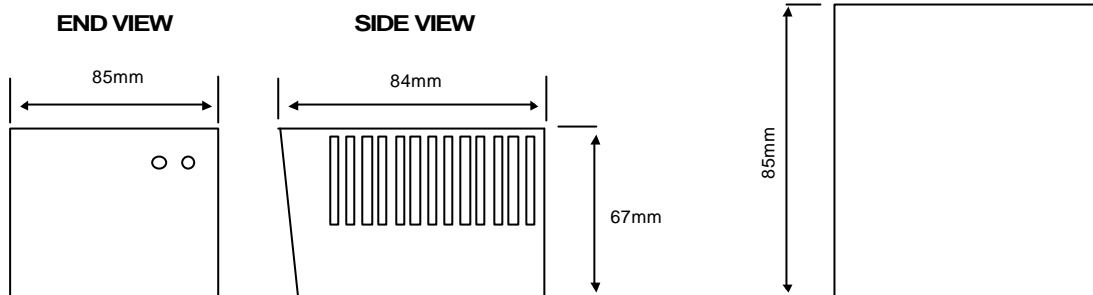
Colour coded crocodile clips on 1.5M flylead
 Black - Negative line
 Red - Positive line

Calibration

Battery type		float volts (VDC)	bulk volts (VDC)
6V	Lead Acid (3 cells)	6.8	7.25
12V	Lead Acid (6 cells)	13.6	14.5
24V	Lead Acid (12 Cells)	27.2	27.6

The above are factory standard settings, specials are available on request.

Dimensions



How to order

When ordering, please specify:-

PRODUCT	Nominal Output VDC			Nominal Output Current	
	6	12	24	0.6	1
SLA424			•	•	
SLA412		•			•
SLA46	•				•

INPUT VOLTAGE		
CODE	115VAC	230VAC
C	•	
D		•

BATTERY TYPE	
Lead Acid	VRLA
LA	•
VRLA	

Product	Input volts	Battery type
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The above 3 part number codes must be filled in to complete your order

SLA412 D VRLA

The above example shows the order code for a desk top charger with 230VAC input, 12V@1A,DC output 4 stage, calibrated for a VRLA battery.

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