



IDEAL POWER LTD.

APPROVAL SHEET

Customer: IP

Part No.: _____

Description: BATTERY CHARGER

Model No.: 77BCB-122AS

Designed No.: S0907009

Date: 2009/7/1

Customer:	Ideal Power Ltd.		
Approved By	Approved By	Checked By	Designed By

Ref. No:	Date	Description
1-0	2009/7/1	NEW

***** Please return a signed copy of the specifications to confirm acceptance. Thank you *****

HEAD OFFICE:

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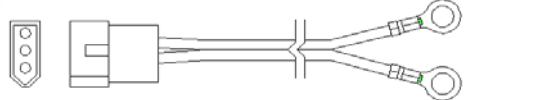
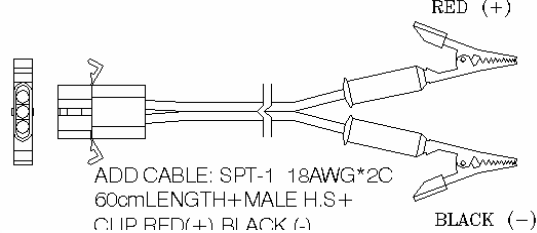
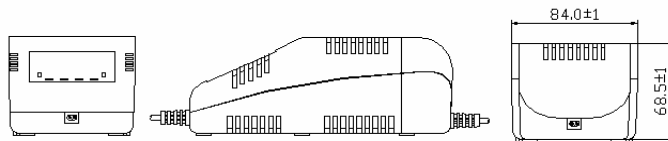
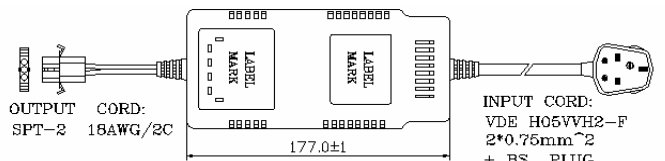
LINEAR POWER SUPPLY & BATTERY CHARGER

Ideal Power Ltd.

77BCB-122AS

INPUT VOLTAGE: **240VAC**
OUTPUT VOLTAGE **12VDC**

ELECTRICAL & MECHANICAL SPECIFICATION



Input Cable: **VDE H05VVH2-F 2*0.75mm² 7FT LENGTH+BS PLUG**

Output Cable: **SPT-1 18AWG*2C 1.1M LENGTH+H.S**

ELECTRONICAL SPECIFICATION

Input Voltage	240	Volts
Frequency (Hz)	50	Hz
Power Rated (W)	42	W
Exciting Current With No load	80	mA Max
Exciting Current With Full load	220	mA Max
Output Current	2.0	Amp
Output Voltage	12.5	Volts ±5%
Output Voltage No-load (DC)	14.5~15.0	Volts
Battery Full Voltage (DC)	14.5~15.0	Volts
HI-POT :		
Test Time	1	Min
PRI TO SEC	1250	Volts
PRI TO CORE	1250	Volts
SEC TO CORE	1250	Volts
Insulation Class	B (130)	°C

LED INDICATE

LED (GREEN)	POWER ON
LED (RED)	CHARGING
LED (YELLOW)	50%
LED (YELLOW)	75%
LED (FLASH)	FULL CHARGING
LED (RED)	FAULT

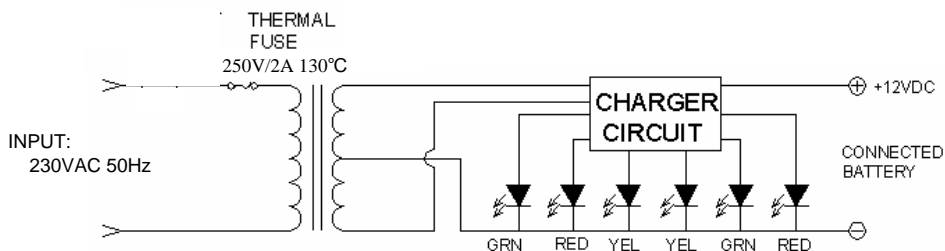
Protected Against Short-Circuit	@
Protected Against Polarity Inversion	@

MECHANICAL SPECIFICATION

Dimensions (L*W*H)	177.0*84.0*68.5	mm
Weight	1385	g
Environment:		
Operating Temperature	-10 To 40	°C
	-20 To 70	°C

Relative Temperature 40°C±2°C	
RELATIVE HUMIDITY	90% RH

ELECTRICAL CIRCUIT



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IDEAL POWER LTD.

Model No: **77BCB-122AS**

CONSTRUCTION DATA FORM

ITEM	DESCRIPTION	MATERIAL	APPROVED BY
1.	ENCLOSURE	NORYL FLAME	UL
2.	LABEL	POLYESPER	UL
3.1.	BOBBIN	NYLON-66	UL
3.2.	PRIMARY WINDING	MAGNET WIRE	UL
3.3.	THERMAL FUSE	250V/2A 130°C	VDE
3.4.	MALAR TAPE	POLYESTER FILM	UL
3.5.	CORE	SILICON STEEL	
3.6.	HEAT SHRINKABLE TUBING	600V/125°C	UL
4.	PCB	FLAME CLASS 94V-0	UL
5.	LEAD WIRE	1617 20AWG,1015 18AWG	UL
6.	INPUT CABLE	VDE H05VVH2-F 2*0.75mm ²	VDE
7.	OUTPUT CABLE	SPT-1 18AWG*2C	UL
8.	ADD CABLE	SPT-1 18AWG*2C	UL