



IDEAL POWER LTD.

APPROVAL SHEET

Customer: IP

Part No.: _____

Description: BATTERY CHARGER

Model No.: 77BCB-121AS

Designed No.: S0907008

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 *****

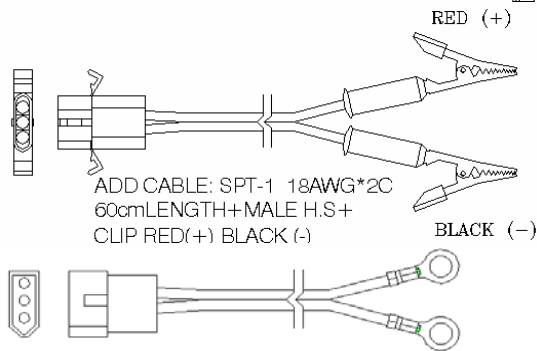
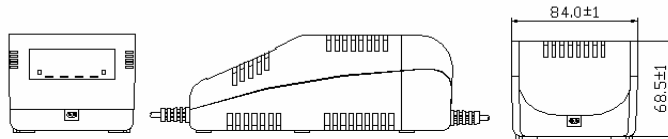
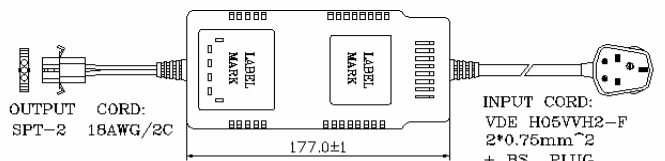
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LINEAR POWER SUPPLY & BATTERY CHARGER

| | | | |
|-------------------------|--------------------|----------------|---------------|
| Ideal Power Ltd. | 77BCB-121AS | INPUT VOLTAGE: | 240VAC |
| | | OUTPUT VOLTAGE | 12VDC |

ELECTRICAL & MECHANICAL SPECIFICATION



ADD CABLE: SPT-1 18AWG*2C 62cm LENGTH +FEMALE H.S+CIRCLE TYPE TERMINAL

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) | 24 | W |
| Exciting Current With No load | 60 | mA Max |
| Exciting Current With Full load | 130 | mA Max |
| Output Current | 1.0 | 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

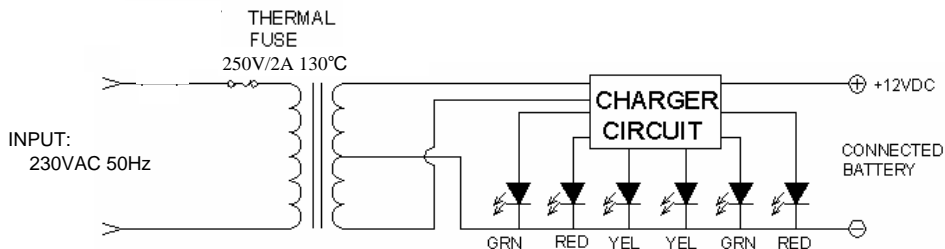
| | |
|--------------|----------------------|
| LED (GREEN) | POWER ON |
| LED (RED) | CHARGING |
| LED (YELLOW) | 50% |
| LED (YELLOW) | 75% |
| LED (FLASH) | FULL CHARGING |
| LED (RED) | FAULT |

| | |
|--------------------------------------|----------|
| Protected Against Short-Circuit | @ |
| Protected Against Polarity Inversion | @ |

MECHANICAL SPECIFICATION

| | | |
|-------------------------------|------------------------|----|
| Dimensions (L*W*H) | 177.0*84.0*68.5 | mm |
| Weight | 1110 | 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-121AS**

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 |