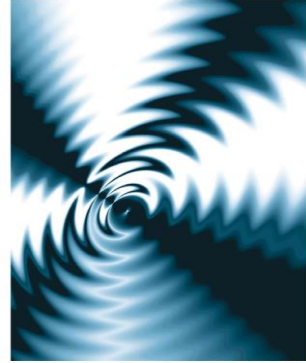


# DC Charger with integral 13A plug and DC output connector on flying lead



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## INTRODUCTION

The CHARGER was examined on behalf of **eOpenbox Ltd.** to assess conformity to the Electrical Equipment (Safety) Regulations 1994.

The examination was made with reference to the Harmonised Standard BS EN 60950-1 "*Safety of Information Technology Equipment*". It should be noted that only a screen test for electrical safety was carried out and not all Clauses of the Standard were applied.

The unit examined was a "direct plug in" switch mode charger fitted with a DC Coax output connector on a flying lead. The item was supplied for use with a digital TV set-top box.

## RESULTS OF THE EXAMINATION

### MARKING

Manufacturers/Importers name – Shown (Shenzhen Grosun Technology Co. Ltd.).  
Model type – Shown (GS-P1200).  
Rating plate - Shown (Input 100 – 240V, 50/60Hz, 1A. Output 12Vdc, 1.5A).  
Mandatory symbols - Shown **CE**, Class II equipment symbol (  $\square$  ), and Indoor Use only.  
Documentation – Instructions for use were provided.

### ELECTRICAL SAFETY

Access to live parts - Not possible.

Pin configuration – Complies with the dimensional requirements of BS 1363.

Isolating capacitor primary / secondary circuits – Y1 rated – meets the requirements for Class II Equipment.

Internal wiring – The internal mains wiring was secured to prevent mains potential wires from touching low voltage output circuits in the event of a solder connection failing.

An insulating cover was fitted between the mains conductor pins and the circuit board.

Input and output circuits – Separated by 5mm, and bridged by an isolating transformer – the Standard calls for a minimum separation between input and output circuits of 5mm for Class II equipment. No breakdown was observed for a voltage of 3750 Vac between the mains input and the DC output connector – as per the requirements of the Standard for Class II equipment.

Input circuit - An internal 5A fuse is fitted to the live circuit.

Output circuit – Short circuit proof, the voltage collapses for a direct short on the output.

Creepage and Clearance – The gap between the Live and Neutral PCB tracks was 3.2mm. The temperature of the case was measured to be 41.5°C for a 1500mA load for 30 minutes. This temperature was within the temperature limits of the charger insulation.

## **OUTPUT POWER**

The rated output was shown as 12Vdc / 1.5A.

The voltage for an operating output current of 1500mA was measured to be 11.9V.

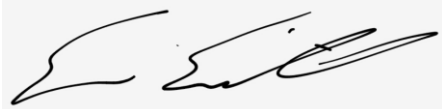
This voltage is within the normally accepted value of  $\pm 10\%$  at the rated current output.

## **COMMENTS**

No non-compliances with electrical safety requirements were observed.

**REPORT # CI06594**

**APPROVED BY:**

A handwritten signature in black ink, appearing to read 'S. Smith', is written over a light grey rectangular background.

25<sup>th</sup> August 2016

**S. Smith**

for

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CI06594

