Test Report 3737808.

Olympia Electronics

N. Lakasas - P. Arvanitidis S.A.

Introduction.

This report has been prepared by Chris Reeves and relates to the activity detailed below:

Job/Registration Details		Client Details
Job number:	**3737808**	Olympia Electronics N. Lakasas - P. Arvanitidis S.A. 72nd klm Old Highway Thessaloniki Katerini Eginio, Pieria P.C 60300 Greece
Job type:	Testing Samples Submitted	
Start Date:	08/08/2023	
Test type:	Audit	
Sample ID:	10204432	
Registration:	**KM 640088**	
Scheme:	BS EN 61347-2-7: 2012	
Protocol:	PP507	
Scheme Mgr:	Mustanir Ali	
Quality system:	ISO 9001:2015	

The report has been approved for issue by Luke masters Electrical Technical Leader

Approved For Issue	
	Issue Date: 06/09/2023

Objectives.

Audit test for product certification to the limited clause of BS EN 61347-2-7:2012 and BS EN 61347-2-13:2014 used in conjunction with BS EN 61347-1:2008 + A1:2011 +A2:2013 in accordance with PP507.

Product Scope.

Emergency Light Conversion kit, GR-1107/60V

Report Summary.

A type sample of the above product has been tested and examined to the relevant requirements of the above specification and was found to comply with these requirements.

Test Samples.

Sample Id / ER Number	Description
10204432	3 units Emergency lighting conversion kit GR-1107/60V with battery; 200-250V, 50/60Hz, 4.75W controlgear; B-973/HT 4.8V, 1500mAh battery

Description of Test Samples.

Sample Description
The Olympia GR-1107/60V is an independent emergency control gear, designed to convert a LED luminaire into an emergency luminaire. Housed in a white thermoplastic enclosure the device is Class II rated and operates from a 200-250V AC, 50/60 Hz, 20 mA, 4.75W supply. Rated duration of 3 hours with 4.8V/1500mAh, Ni-Cd battery

Test Equipment.

Number	Description	Cal Due Date
9006874	Barometer	01/02/2024
9004510	Thermo-Hygrometer	18/05/2024
CAS:110-54-3	Hexane	NICS
9006964	Stopwatch	12/06/2025
9005136	Standard test finger	11/01/2024
9006243	Variac	NICS[1]
9005278	Multimeter[1]	21/03/2024
--	Siemens Logo PLC	NICS[2]
9005170	Humidity Chamber	05/09/2023
9004573	Clare HAL tester	14/12/2023
9005303	Binder Chamber	05/09/2023
9006422	Variac	NICS[1]

Supplementary information : NICS = Not In Calibration System

[1] Variac 9006243 output voltage verified by eq. 9005278.

[2] Siemens logo and counter verified by equipment 9006964 for cycle time

Summary of Test Comments.

General observations
Standard should be updated to BS EN 61347-2-7:2012+A1:2019 for the applied standard to be within the transition period.

Glossary of Terms.

PASS: Complies. Tested by BSI engineers at BSI laboratories.

PASS1: Complies. Witnessed by BSI engineers in manufacturers laboratory.

PASS2: Complies. Tests carried out by third party lab; results accepted by BSI.

PASS*: Report resulted in uncertainty and states that Compliance is more probable than non-compliance.

FAIL: Non compliance – Product does not meet the requirements of this clause.

FAIL*: Report resulted in uncertainty and states that Non-compliance is more probable than compliance.

N/A: Not applicable to design under consideration.

N/T: Not tested due to similarity to previously tested item; reference earlier test report.

Conditions of Issue.

This Test Report is issued subject to the conditions stated in current issue of 'BSI Terms of Service'. The results contained herein apply only to the particular sample(s) tested and to the specific tests carried out, as detailed in this Test Report. The issuing of this Test Report does not indicate any measure of Approval, Certification, Supervision, Control or Surveillance by BSI of any product. No extract, abridgement or abstraction from a Test Report may be published or used to advertise a product without the written consent of BSI, who reserve the absolute right to agree or reject all or any of the details of any items or publicity for which consent may be sought.

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Supporting Data – Test Results

Table A - BS EN 61347-2-7:2012 used in conjunction with BS EN 61347-1:2008+A2:2013.

Standard Clause Ref	Activity	Test result	Complies?
7 (61347-2-7)	Markings	All required markings are present	PASS
7.1 (61347-2-7)	Marking Information Provided	All required additional information are present	PASS
7.2 (61347-2-7)	Durability and legibility of marking	Markings rubbed for 15 seconds with cloth soaked in water. Markings rubbed again for 15 seconds with cloth soaked in hexane. After test markings legible = Yes Easily removable = No Curling = No	PASS
8 (61347-2-7) 10 (61347-1)	Protection against accidental contact with live	Max Voltage measured at terminals 1 minute after disconnection = Between (L&N): 76mV.a.c. 0.001V.d.c. Limit = 50 V .d.c.	PASS
10 (61347-2-7) 9 (61347-1)	Provisions for earthing	No provisions for earthing	N/A
61347-2-7 Clause 11 (61347-1 Clause 11)	Moisture resistance	Sample maintained in chamber for 48 hours at 25°C, 95 %RH	PASS
61347-2-7 Clause 11 (61347-1 Clause 11)	Insulation resistance	500 VDC applied for 1 minute: (a) Reinforced limit = > 4 MΩ 1 Live parts (L&N) → Metal foil around enclosure = 500 MΩ Basic limit = > 2 MΩ 2 - Live parts → Battery terminal = 2.36 MΩ 3 - Live parts → LED terminal =2.36 MΩ	PASS

12 (61347-2-7) 12 (61347-1)	Electric strength	Electric Strength test Test voltage of 60 Hz of sinusoidal form test voltage, applied for 1 minute: Test voltages: Basic insulation = 1500 kV Reinforced insulation = 3000 kV 1 Live parts (L&N) → Metal foil around enclosure (Reinforced) No breakdown and No flashover 2 - Live parts → Battery terminal (Basic) No breakdown and No flashover 3 - Live parts → LED terminal (Basic) No breakdown and No flashover	PASS
21 (61347-2-7)	Changeover operation	Changeover occurred at: Normal to Emergency = 156 Vac Emergency to normal = 167 Vac (Range 144 – 187 Vac) After switching test - lamp illuminated in emergency mode.	PASS
22, 22.1 (61347-2-7)	Recharging device Low temperature	Recharge conducted at 0°C Ni-MH battery 4 cell Vmin Limit = 4.4 V (1.1V per cell) Battery voltage measured after 3 hrs: 4.85V d.c. 3-hour duration met	PASS
22.4 (61347-2-7)	Maximum Output voltage	Maximum output measured: With battery: 5.01 V.d.c. Without battery: 10.11 V.d.c. Limit = > 50 V.d.c.	PASS??

Table B – Critical component check

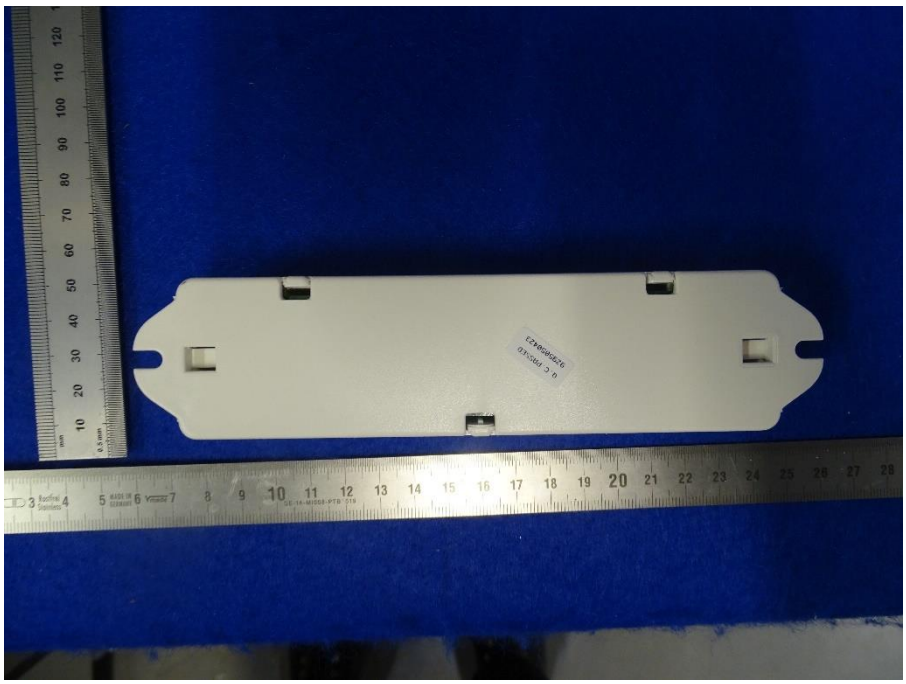
Critical Component	Type Test report 8408554-1	Audit	Changed?
Screwless terminal (KL3)	WAGO 250-204, 0.5 – 1.5 mm2, 250 V, 2 A	No markings, appears to be identical to audit report – SMO 3554856	No
Screwless terminal (KL2)	Chaoyue DC250S-3.5 300 V, 7 A	No markings, appears to be identical to audit report – SMO 3554856	No
Mains fuse	Not listed	Trademark LF (Littelfuse); 1A, 250V	No*
X2 Capacitor C1	Not listed	Kemet, type R.46; 250V, 0.22uF	No*
Capacitors C14	Murata Y1 2.2 nF, 250 V	Murata type KX; X1Y1, 250V, 2200pF	No
Transformer M1	TNY264-268 251900013	No markings on the transformer except type 251900013 marked. No visible changes from type test.	No
Optocoupler U1	Not listed	Renesas type 2501	No*
Battery	Ni-Cd, KRMT 23/43 1.2 V (per cell), 1.5 Ah	NiCd KRMT 23/43 1.2 V (per cell), 1.5 Ah	No
PCB	1.Baski Devre, LSM3000N 6K; 2. Odak; 3. All favour, PSR-2000 CE826HF3 /CA-25 CE80 V-0	No marking except 0111193 Appears to be identical to audit report – SMO 3554856	No

*Components not listed in actual type test report but observed on pictures and compared to that report visually

Photographs.

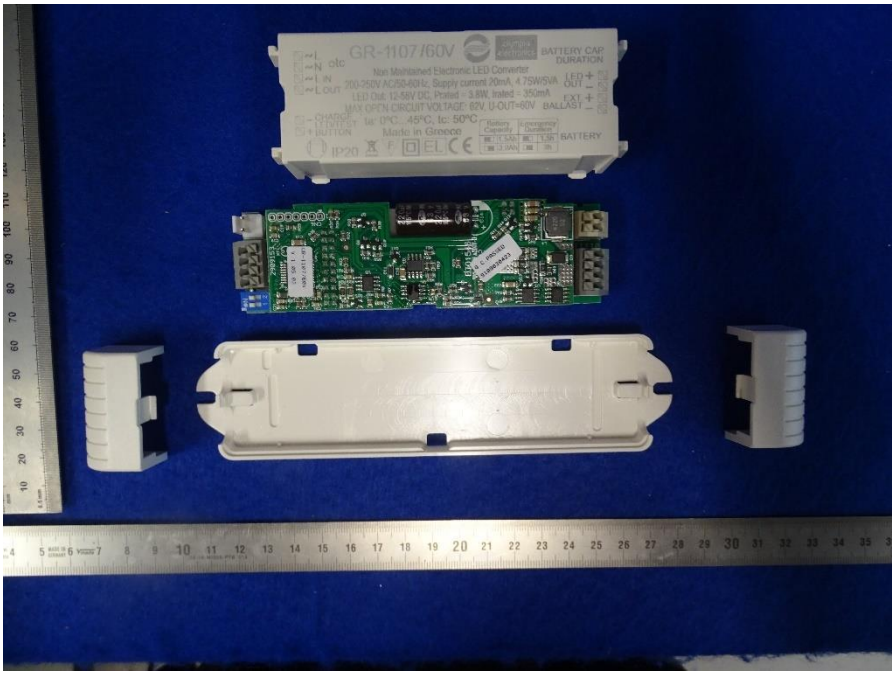
Controlgear GR-1107/60V with battery

Controlgear GR-1107/60V overview top

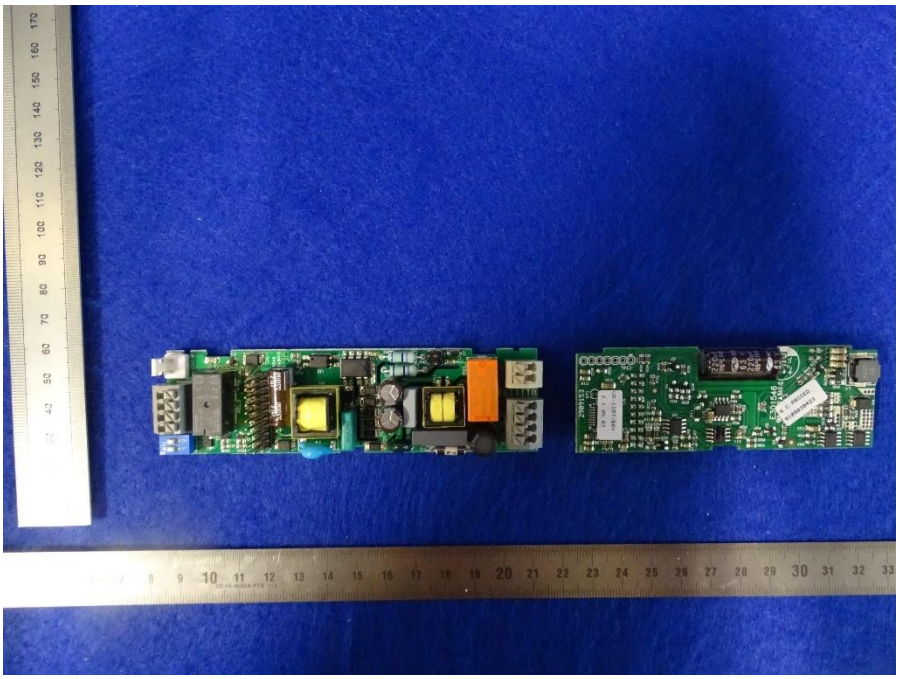


Controlgear GR-1107/60V Mounting surface side

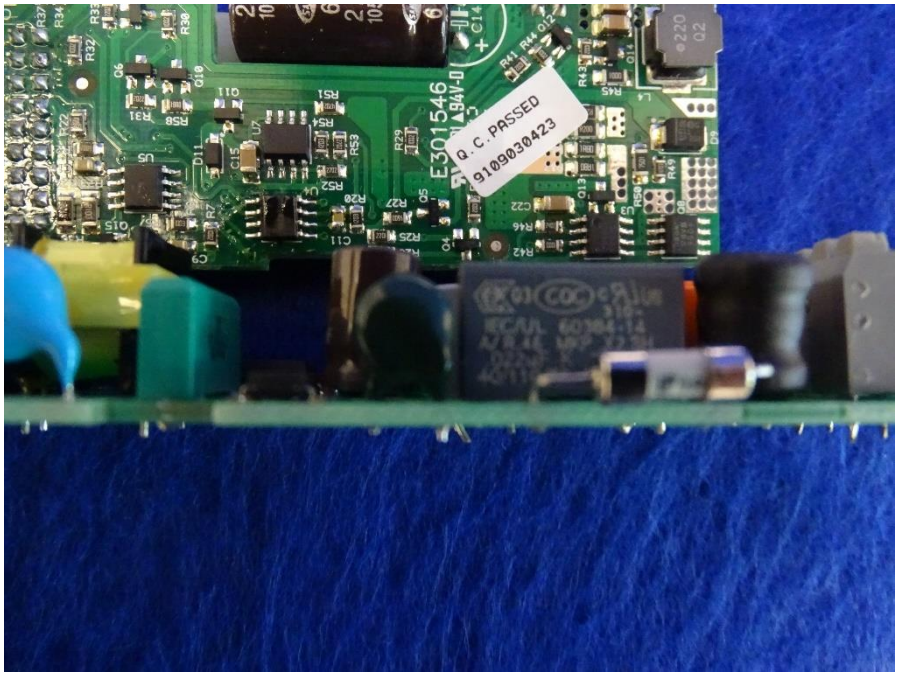
Controlgear GR-1107/60V markings



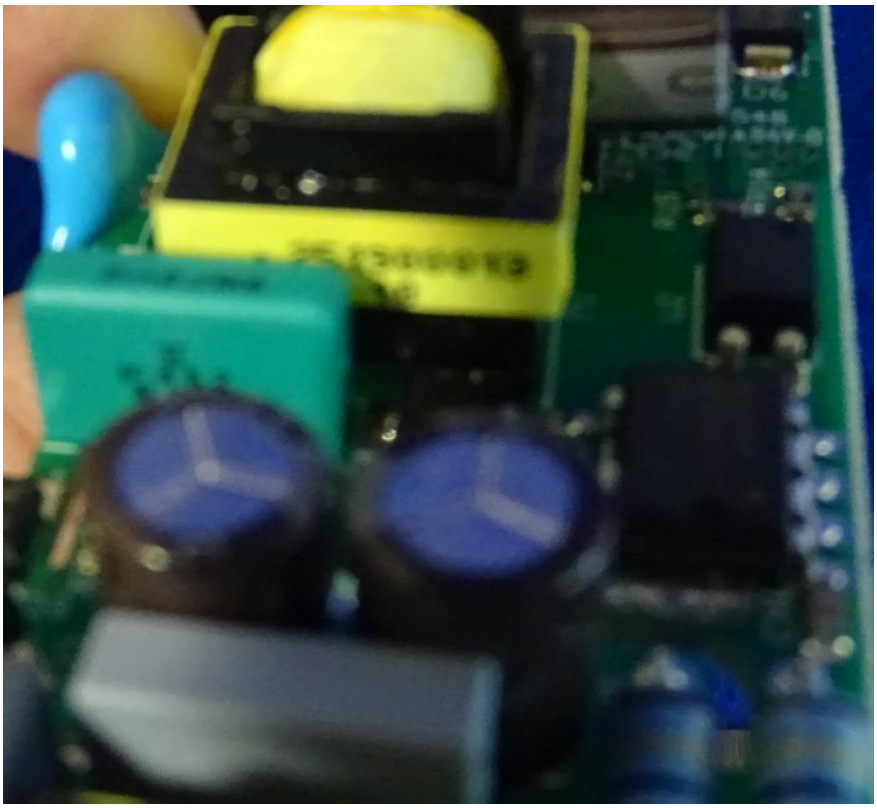
Controlgear GR-1107/60V open view



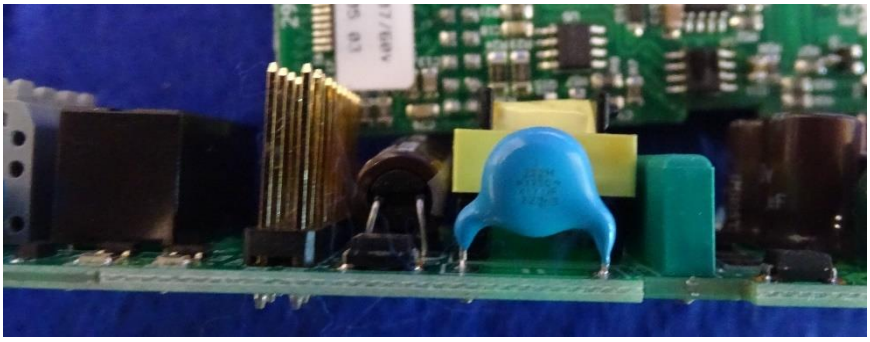
Controlgear GR-1107/60V Main PCB and top PCB



GR-1107/60V components detail view



GR-1107/60V Transformer marking view



GR-1107/60V detail view with capacitor marking

Battery B973HT top view and markings

*** End of Report ***