



TEST REPORT COMMISSION REGULATION (EC) No 1275/2008 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for standby and off mode electric power consumption of electrical and electronic household and office equipment	
Report Reference No:	GZES120800784431
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Date of issue:	2012-12-11
Total number of pages:	10
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Applicant's name:	HoMedics Group Ltd
Address:	HoMedics House, Somerhill Business Park, Five Oak Green Road, Tonbridge, Kent TN11 0GP England
Test specification:	
Test procedure	STR: COMMISSION REGULATION (EC) No 1275/2008
Non-standard test method:	None
Test Report Form No:	1275/2008/EC_E
Test Report Form(s) Originator	SGS-CSTC
Master TRF:	2012-07-02
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Test item description.....:	Ultrasound cavitations
Model/Type reference.....:	USL-1000-EU
Ratings.....:	220 – 240 V, 50 – 60 Hz, 30 W, Class II
Manufacturing site (factory).....:	—
Test item particulars:	
Classification of installation and use	Portable appliance
Supply Connection.....:	Inlet connection
Availability of Standby mode.....:	Yes
Availability of off mode.....:	No
Availability of display function in standby-mode.....:	No
Availability of any condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source.....:	Yes
Availability of power management function.....:	No
Summary of testing:	
Tests performed:	
<p>The sample(s) tested complies with the requirements of COMMISSION REGULATION (EC) No 1275/2008.</p> <p>These tests fulfil the requirements of standard ISO/IEC 17025.</p> <p>When determining the test conclusion, the Measurement Uncertainty of test has been considered.</p> <p>The maximum permitted uncertainty of measurement depends on the size of the load and the characteristics of the load. The key characteristic of the load used to determine the maximum permitted uncertainty is the Maximum Current Ratio (MCR), which is calculated as follows:</p> $\text{Maximum Current Ratio (MCR)} = \frac{\text{Crest Factor (CF)}}{\text{Power Factor (PF)}}$ <p>where</p> <ul style="list-style-type: none"> the Crest Factor (CF) is the measured peak current drawn by the product divided by the measured r.m.s. current drawn by the product; the Power Factor (PF) is a characteristic of the power consumed by the product. It is the ratio of the measured real power to the measured apparent power. <p>a) <u>Permitted uncertainty for values of MCR ≤ 10</u></p> <p>For measured power values of greater than or equal to 1,0 W, the maximum permitted relative uncertainty introduced by the power measurement equipment, U_{mr}, shall be equal to or less than 2 % of the measured power value at the 95 % confidence level.</p> <p>For measured power values of less than 1,0 W, the maximum permitted absolute uncertainty introduced by the power measurement equipment, U_{ma}, shall be equal to or less than 0,02 W at the 95 % confidence level.</p>	

b) Permitted uncertainty for values of MCR >10

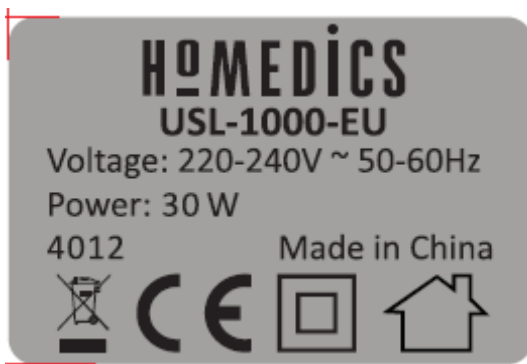
The value of U_{pc} shall be determined using the following equation:

$$U_{pc} = 0,02 \times [1 + (0,08 \times \{MCR - 10\})]$$

where U_{pc} is the maximum permitted relative uncertainty for cases where the MCR is > 10.

For measured power values of greater than or equal to 1,0 W, the maximum permitted relative uncertainty introduced by the power measurement equipment shall be equal to or less than U_{pc} at the 95 % confidence level.

For measured power values of less than 1,0 W, the permitted absolute uncertainty shall be the greater of U_{ma} (0,02 W) or U_{pc} when expressed as an absolute uncertainty in W ($U_{pc} \cdot$ measured value) at the 95 % confidence level.

Copy of marking plate

<p>Possible test case verdicts:</p> <ul style="list-style-type: none"> - test case does not apply to the test object: N (or N/A) - test object does meet the requirement: P (Pass) - test object does not meet the requirement: F (Fail)
<p>Testing</p> <p>Date of receipt of test item: 2012-08-22</p> <p>Date (s) of performance of tests: 2012-08-22 to 2012-12-11</p>
<p>General remarks:</p> <p>The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. "(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report.</p> <p>Throughout this report a comma is used as the decimal separator.</p> <p>This document is issued by the Company subject to its General Conditions of Service, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be produced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.</p>
<p>General product information:</p> <p>Ultrasound cavitations for household and indoor use only. PO No.: PC0001173</p>

COMMISSION REGULATION (EC) No 1275/2008			
ANNEX II Ecodesign requirements			
Cl.	Requirement-Test	Result-Remark	Verdict
1 & 2	Power consumption in 'off mode'		—
1(a) & 2(a)	Power consumption of equipment in any off-mode condition		N/A
1(b) & 2(b)	Power consumption in 'standby mode(s)'		—
	The power consumption of equipment in any condition providing only a reactivation function, or providing only a reactivation function and a mere indication of enabled reactivation function		P
	The power consumption of equipment in any condition providing only information or status display, or providing only a combination of reactivation function and information or status display		P
1(c) & 2(c)	Availability of off mode and/or standby mode		—
	Equipment shall, except where this is inappropriate for the intended use, provide off mode and/or standby mode, and/or another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source		P
2(d)	Power management (this requirement is only applicable after this Regulation has come into force for four years)		—
	When equipment is not providing the main function, or when other energy-using product(s) are not dependent on its functions, equipment shall, unless inappropriate for the intended use, offer a power management function, or a similar function, that switches equipment after the shortest possible period of time appropriate for the intended use of the equipment, automatically into:		N/A
	<ul style="list-style-type: none"> — standby mode, or — off mode, or — Another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source. The power management function shall be activated before delivery 		N/A

Table 1	Test parameters for measurements
The measurement method used.....:	EN 50564:2011
Test ambient temperature (°C).....:	23°C
Test voltage in V and frequency in Hz.....:	230 V , 50 Hz
Total harmonic distortion (THD) of the electricity supply system.....:	0,02%
Power consumption was determined by.....:	Average reading method
Description of how the appliance mode was selected or programmed.....:	By power switch
Sequence of events to reach the mode where the equipment automatically changes modes.....:	N/A
Other notes regarding the operation of the equipment.....:	N/A

Set-up and circuits used for electrical testing:

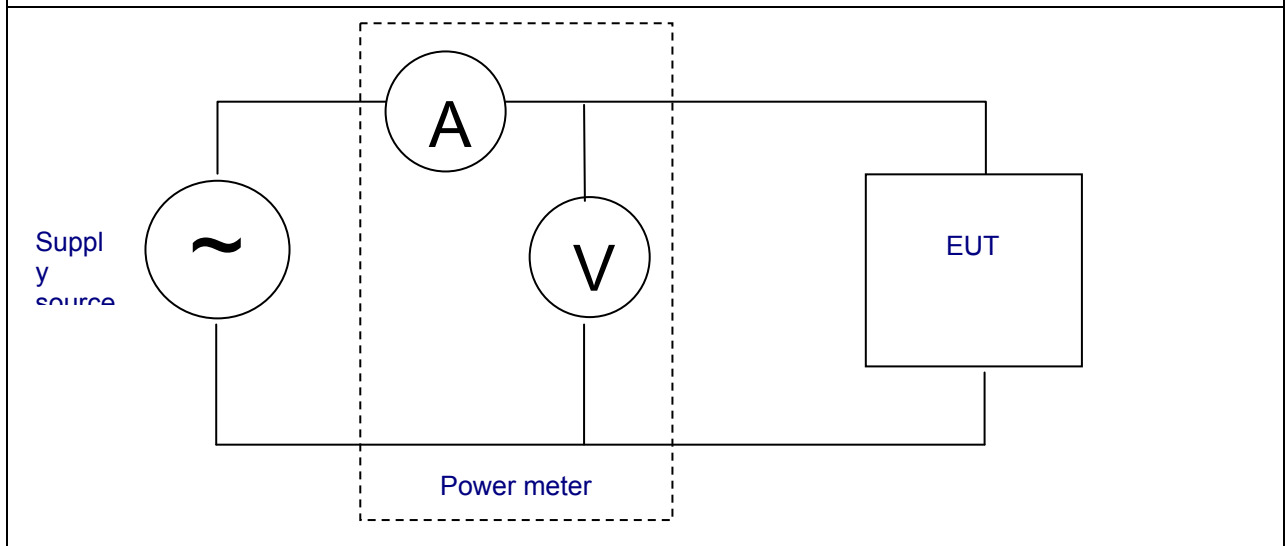
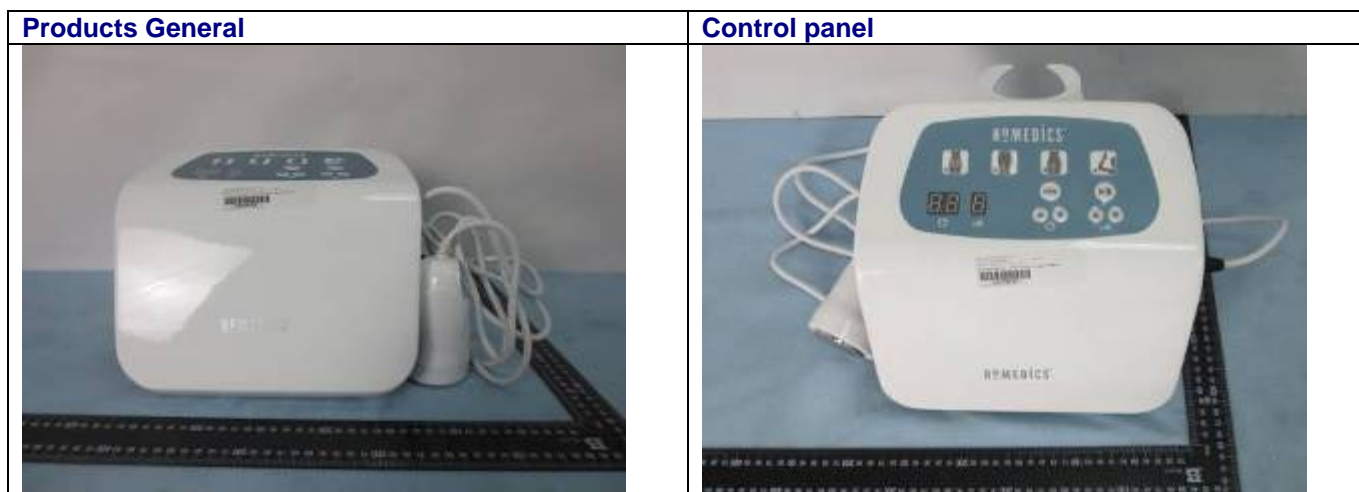


Table 2	Test result	P	
Operating mode(s)	Measured (W)	Limit (W)	
		Stage 1	Stage 2
Off-mode condition			
Any condition which does not exceed the applicable power consumption requirements for off mode when the equipment is connected to the mains power source.....:	—	1	0,5
Power consumption in 'standby mode(s)' in			
Any condition providing only a reactivation function, or providing only a reactivation function and a mere indication of enabled reactivation function.....:	—	1	0,5

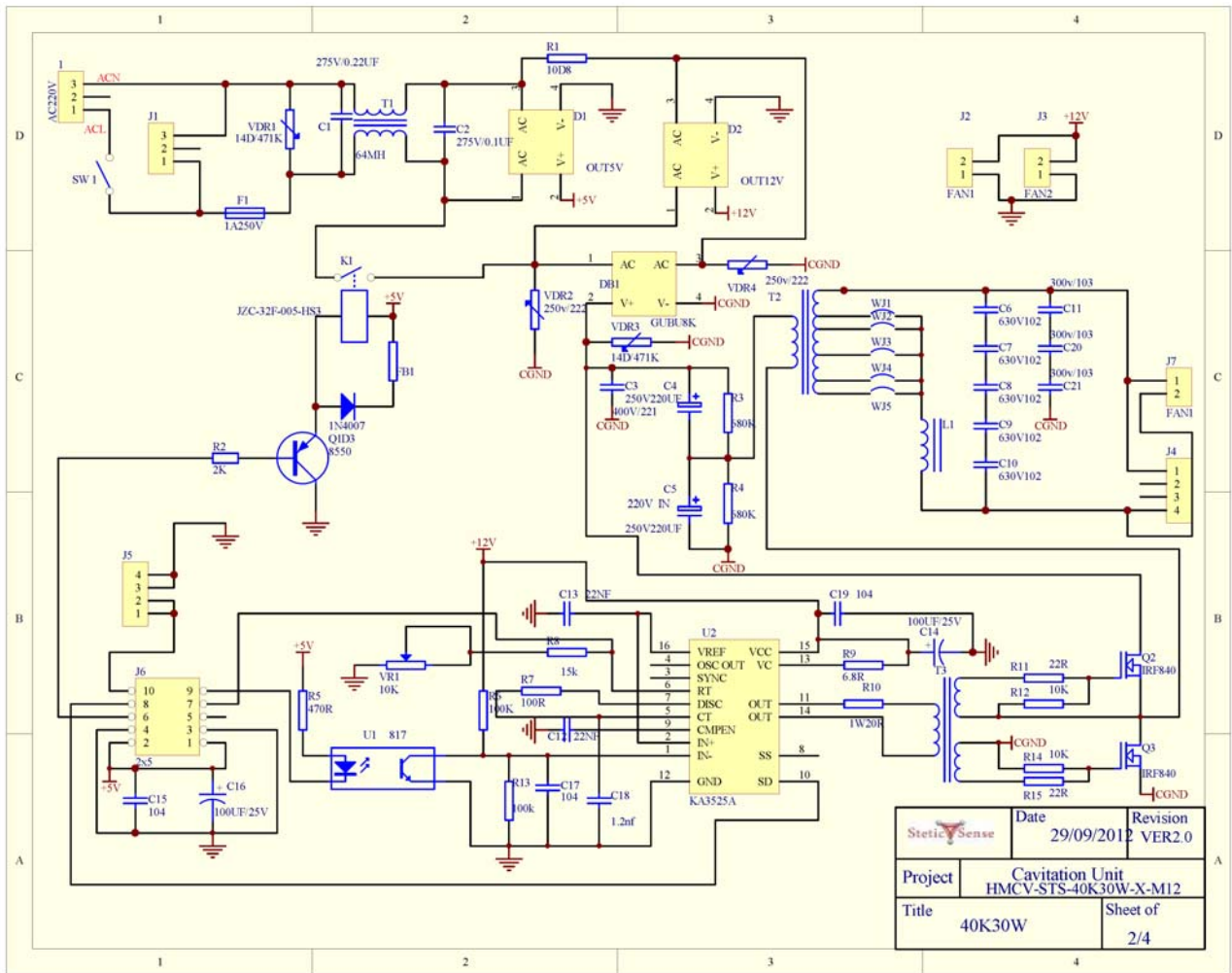
Operating mode(s)	Measured (W)	Limit (W)	
		Stage 1	Stage 2
Any condition providing only information or status display, or providing only a combination of reactivation function and information or status display.....:	0,48	2	1
Any condition which does not exceed the applicable power consumption requirements for standby mode when the equipment is connected to the mains power source.....:	—	—	—
Result:	The EUT complies with the ecodesign requirements Stage 1 / Stage 2 of Annex II of COMMISSION REGULATION (EC) No 1275/2008		

Table 3		Test instruments		
Name	Brand	Model	Last cal. date	Next cal. date
Digital Power Meter	Yokogawa	WT200	2012-2-18	2013-2-18

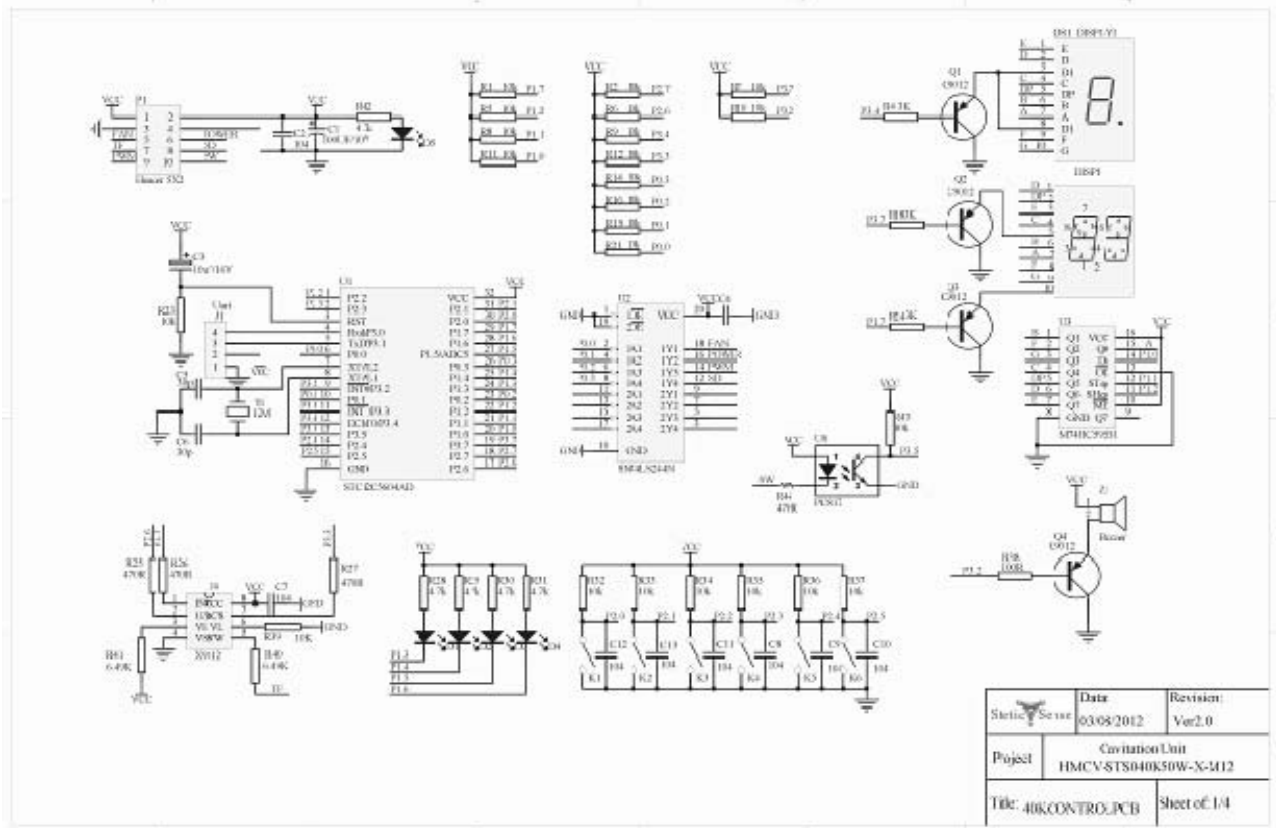
Photo documents:



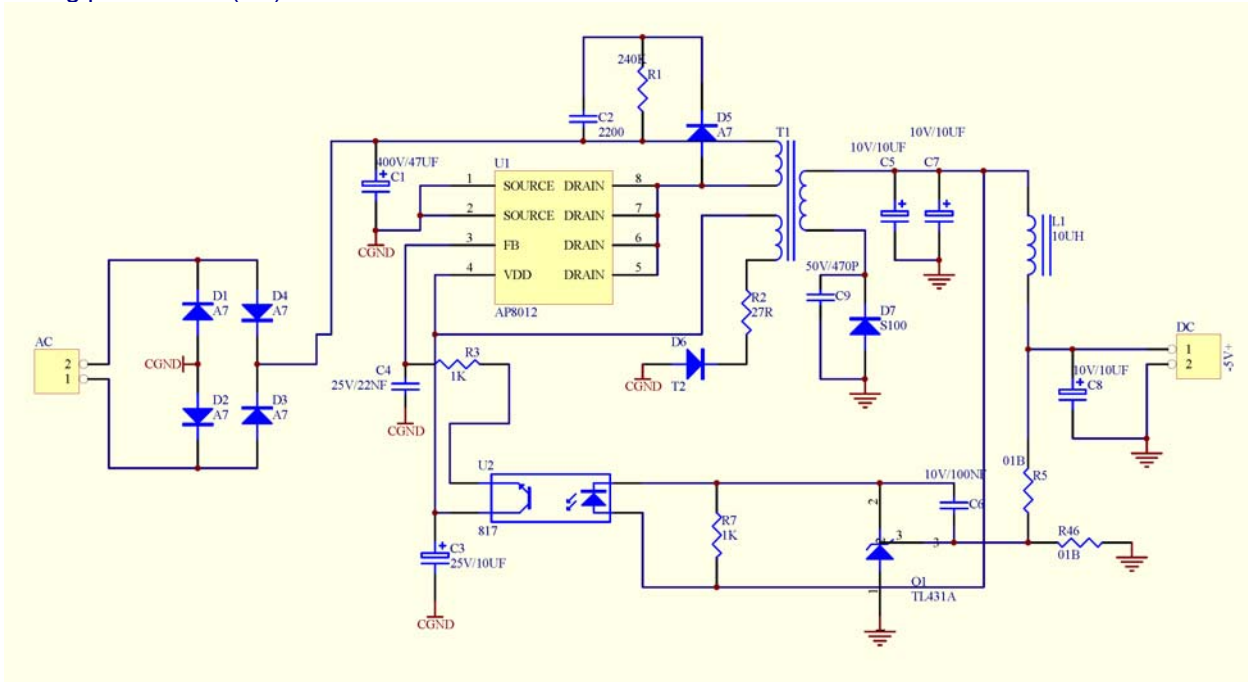
Circuit diagram documents: Main circuit diagram



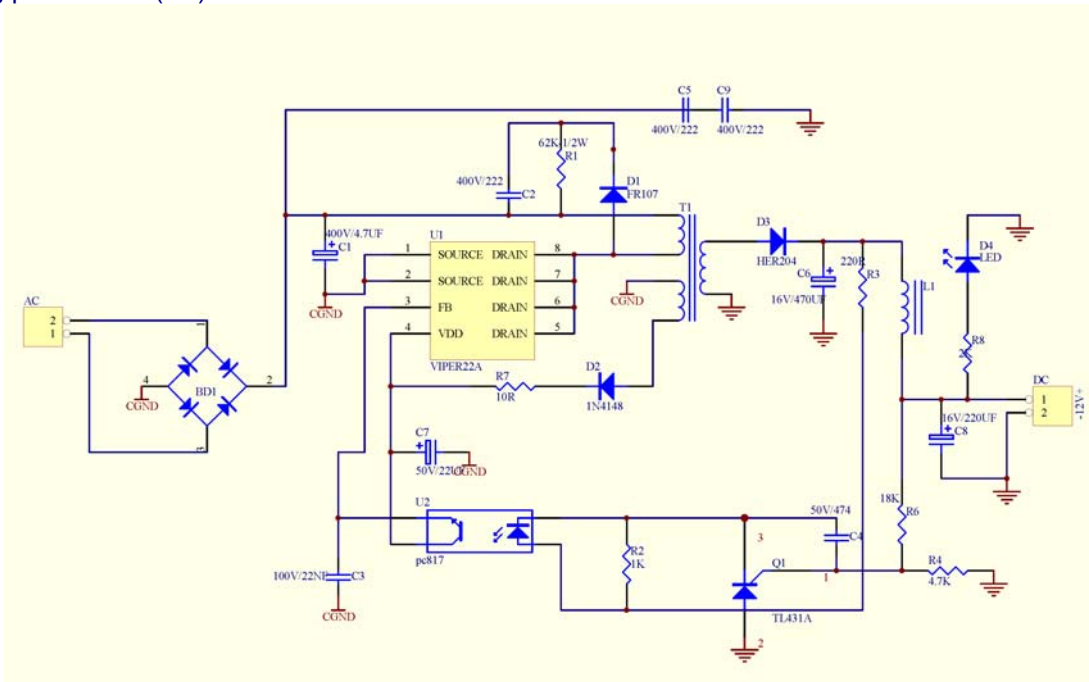
Control circuit diagram



Switching power PCB (D1)



Switching power PCB (D2)



--- End of Report ---