Report No : Solic Model AF2.1

Test Report
IEC/EN 60335-1
Household and similar electrical appliances-Safety-
Part 1: General Requirements
Report No :
Tested by :
Approved by :
Date :
Test Specification
Standard : IEC 60335 - 1:2010 9 (Fifth Edition)
EN 60335 - 1 : 2012
Test Item :
Trade Mark : Solic 200
Manufacturer : Earthwise Products Ltd
Model / Type ref:Model AF 2.1
Ratings : 205 – 260, 50 Hz, 3Kw
Testing Location : In House

List of Attachments	
No attachments	
Summary of Testing :	
The Solic 200 unit was assessed for basic insulation between the ma	ins circuitry and
protective earth/accessible earthed metalwork.	
Tests performed (name of test and test clause)	
General conditions for tests :	5
Classification :	6
Markings and Instructions :	7
Protection against access to live parts :	8
Power input and current :	10
Heating :	11
Leakage current and electric strength at operating temperature :	13
Moisture resistance :	15
Leakage current and electric strength :	16
Overload protection and associated circuits :	17
Endurance :	18
Abnormal operation :	19
Stability and mechanical hazards :	20
Mechanical strength :	21
Construction :	22
Internal wiring :	23
Components :	24
Supply connections and external flexible cords :	25
Terminals for external conductors :	26
Provision for earthing :	27
Screws and connections :	28
Clearances, creepage distances and solid insulation :	29
Resistance to heat and fire :	30
Resistance to rusting :	31
Radiation, toxicity and similar hazards :	32

Summary of compliance with National Differences List of countries addressed: Australia, Belgium, Denmark, France, Germany, Iceland, Ireland, Italy, Luxembourg, Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom. This product fulfils the requirements of IEC /EN 60335 – 1 & AS/NZS 60335 – 1

Marking plate used on the Solic 200
Test Item particulars
Classification of installation and use : Class 1
Supply connection : Single - phase
Possible test case verdicts :
Test case does not apply to the test object : N/A
Test item does meet the requirement : Pass
Test item does not meet the requirement : Fail
General product information :
The Solic 200 is an automatic power controller for heaters. It accurately tracks all available
surplus power generated by photovoltaic, wind or water powered generators, ensuring all
of the green energy produced is fully utilised.
Note : The maximum power/current is dependent on the rating of the external load, which
is up to a maximum of 3 Kw. The recorded measurements in the appended table are for a
unit with no load attached.

Only relevant clauses of IEC/EN 60335-1 shown

Clause	Requirement / Test	Remark	Verdict
5	General Conditions fo	r Tests	Pass
	Test performed according to cl 5,		Pass
	eg nature of supply, sequence of		
	testing etc.		
6	Classification.	ſ	Pass
6.1	Protection against electric shock :	Class 1	Pass
6.2	Protection against harmful	IPXO	N/A
	ingress of water.		
7	Marking and Instruc	tions	Pass
7.1	Rated voltage or voltage range (V)	206 – 260 V	Pass
	Symbol for nature of supply.		N/A
	Rated frequency (Hz).	50Hz	Pass
	Rated power input.	3Kw	Pass
	Rated current.		N/A
	Manufacturer's or responsible	Earthwise	Pass
	vendor's name, trademark or	Products Ltd	
	identification mark.		_
	Model or type reference.	AF 2.1	Pass
	IP number, other than IPXO.	IP 51	Pass
7.3	Range of rated values marked		Pass
	with the lower and upper limits		
	separated by a hyphen.		
7.6	Correct symbols used.		Pass
	Units of physical quantities and		Pass
	their symbols according to		
	international standardized		
7.0	System.	inals for	Dass
7.8	except for type 2 attachment, term	indis ior	PdSS
	Marking of terminals exclusively		Pacc
	for the neutral conductor (N)		r ass
	Marking of protective earthing		Dass
	terminals (symbol IEC 60/17 –		r ass
	5019)		
	Marking not placed on removable		Pass
	parts.		1 435
7.12	Sufficient for safe use provided.		Pass

Clause	Requirement / Test	Remark	Verdict
7.12	The appliance is not to be used by		Pass
	persons (including children) with		
	reduced physical sesory or mental		
	capabilities, or lack of experience		
	and knowledge, unless they have		
	been given supervision or		
	instruction.		
	Children being supervised not to		Pass
	play with the appliance.		
7.12.1	Sufficient details for installation		Pass
	supplied.		
	Stationary appliances not fitted		Pass
	with means for disconnection		
	from the supply mains having a		
	contact separation in all poles		
	that provide full disconnection.		
7.12.7	Instructions for fixed appliances		Pass
	stating how the appliance is to be		
	fixed.		
7.13	Instructions and other texts in an	English	Pass
	official language		
7.14	Marking clearly legible and		Pass
	durable		_
7.15	Marking on a main part		Pass
	For fixed appliances, name,		Pass
	trademark or identification mark		
	and model or type reference		
	Visible after installation.	a Lina Danta	Dava
8	Protection against Access t	o Live Parts	Pass
0.1	Adequate protection against		PdSS
011	Boguiroment applies for all		Dace
0.1.1	nositions detachable parts		rdss
	romoved		
	Lise of test probe B of IEC 61032		Pass
	with a force not exceeding 1 N		r d 33
	no contact with live parts		
	Lise of test probe B of IEC 61032		Pass
	through openings with a force of		1 055
	20 N no contact with live parts		

Clause	Requirement / Test	Remark	Verdict
10	Power Input and Cur	rrent	Pass
10.1	Power input at normal operating		Pass
	temperature, rated voltage and		
	normal operation not deviating		
	from rated power input by more		
	than shown in Table 1		
11	Heating		Pass
11.1	No excessive temperatures in		Pass
	normal use		
11.2	The appliance is held, placed or	Wall mounted	Pass
	fixed in position as described		
11.3	Temperature rises, other than		Pass
	windings, determined by		
	thermocouples		
11.4	Heating appliances operated	3.45 Kw	Pass
	under normal operation at 1.15		
	times rated power		
11.7	Operation duration		Pass
	corresponding to the most		
	unfavourable conditions of		
	normal use		
11.8	Temperature rises monitored		Pass
	continuously and not exceeding		
	the values in Table 3		
	Protective devices did not	See 24.1.4	Pass
	operate, except		
13	Leakage Current and Electrical Stre	ength at Operating	Pass
	Temperature		
13.1	Leakage current not excessive		Pass
	and electric strength adaquate		
	Heating appliances operated at	3.45 Kw	Pass
	1.15 times the rated power input		
	(W)		
	Leakage current measurements	See appended	Pass
		table	
	Electric strength tests according	See appended	Pass
	to Table 4	table	
	Leakage current not excessive		Pass
	and electric strength adequate		
15	Moisture Resistance		Pass
15.1	Enclosure provides the degree of moisture protection		Pass
	according to the classification c		

Clause	Requirement / Test	Remark	Verdict
15.3	Appliances proof against		Pass
	humid conditions		
	Checked by test cabinet:		Pass
	Damp heat steady state		
	in IEC 60068-2-78		
	Humidity test for 48		Pass
	hours in a humidity		
	cabinet		
	The appliance		Pass
	withstands the tests of		
-	Clause 16		
16	Leakage Current and Elec	trical Strength	Pass
16.1	Leakage current not		Pass
	excessive and electric		
	strength adequate		
	Tests carried out at room		Pass
	temperature and not		
	connected to the supply		
16.2	Single phase appliences	254V	Pass
	test voltage 1.06 times		
	rated voltage (V)		
	Leakage current	See appended	Pass
	measurements	table	
16.3	Electric strength tests	See appended	Pass
	according to Table 7	table	Data
	NO Dreakdown during		Pass
10	Abnormal Oper	ation	Dace
10.1	The risk of fire		Pass
19.1	mochanical damage or		F 035
	electric shock under		
	abnormal or careless		
	operation obviated		
	Electronic circuits so	See annended	Pass
	designed and applied	table	1 435
	that a fault will not	tuble	
	render the appliance		
	unsafe		
	Appliances incorporating		Pass
	electronic circuits		
	subjected to the tests of		
	19.11 and 19.12. as		
	applicable		

Clause	Requirement / Test	Remark	Verdict
19.11	Electronic circuits,		Pass
	compliance checked by		
	evaluation of the fault		
	conditions, specified in		
	19.12 for all circuits or		
	parts of circuits, unless		_
	They comply with the		Pass
	conditions specified in		
	19.11.1		
	If the safety of the		Pass
	appliance under any of		
	the fault conditions		
	depends on the		
	operation of a miniature		
	fuse-link complying with		
	IEC 60127, the test of		
	19.12 is carried out		
	During and after each test	the following is	Pass
	checked		
	The appliance complies		Pass
	with the conditions		
	specified in 19.13		_
19.11.1	Before applying the fault of	conditions a) to	Pass
	f) in 19.11.2, it is checke	d if circuits or	
	parts of the circuit meet	t both of the	
10 11 2	Tollowing conditions applied	ions :	Dace
19.11.2	the appliance operated up	one at a time,	Pd55
	specified in cl11 but sun	nlied at rated	
	voltage the duration of	f the tests as	
	specified		
	Short circuit of		Pass
	capacitors. unless		
	Short circuit of any two		Pass
	terminals of an		
	electronic component,		
	other than integrated		
	circuits		

Clause	Requirement / Test	Remark	Verdict
19.11.4.8	The appliance is supplied		Pass
	at rated voltage and		
	operated under normal		
	operation. After 60 s the		
	power supply is reduced		
	to a level such that the		
	appliance ceases to		
	respond or parts		
	controlled by the		
	programmable		
	component cease to		
	operate		_
19.13	During the test the		Pass
	appliance does not emit		
	flames, molten metal,		
	poisonous or ignitable		
	gas in nazardous		
	amounts		
	Temperature rises not	See appended	Pass
	exceeding the values	table	
	shown in Table 9		
	Compliance with clause		Pass
	8 not impaired		
	If the appliance can still		Pass
	be operated it complies		
	with 20.2		
	Insulation, other than cla	ss 3 appliance,	Pass
	withstand the electric st	rength test of	
	16.3, the test voltage spec	cified in Table 7	
	Basic insulation (V)	1250V rms	Pass
	After operation or		Pass
	interruption of a control,		
	clearances and creepage		
	distances across the		
	functional insulation		
	withstand the electric		
	strength test of 16.3, the		
	test voltage being twice		
	the working voltage		

Clause	Requirement / Test	Remark	Verdict
	The appliance does not		Pass
	undergo a dangerous		
	malfunction, and		
	No failure of protective		Pass
	electronic circuits, if the		
	appliance is still operable		
20	Stability and Mechani	cal Hazards	Pass
20.1	Appliances have	Fixed	Pass
	adequate stability	equipment	
20.2	Moving parts adequately		Pass
	arranged or enclosed as		
	to provide protection		
	against personal injury		
21	Mechanical Stre	ength	Pass
	Appliance has adequate		Pass
	mechanical strength and		
	is constructed as to		
	withstand rough		
	handling		
	Checked by applying 3		Pass
	blows to every point of		
	the enclosure, likely to		
	be weak, in accordance		
	with test Ehb of IEC		
	60068-2-75, spring		
	hammer test, with an		
	impact energy of 0.5 J		
	The appliance shows no		Pass
	damage impairing		
	compliance with this		
-	standard, and		
	Compliance with		Pass
	8.1,15.1 and clause 29		
	not impaired		
22	Constructio	n	Pass
22.1	Appliance marked with		Pass
	the first numeral of the		
	IP system, relevant		
	requirements of IEC		
	60529 are fulfilled		

Clause	Requirement / Test	Remark	Verdict
22.2	Stationary appliance:		Pass
	means to ensure all-pole		
	disconnection from the		
	supply being provided		
	A statement in the		
	instruction sheet that a		
	disconnection		
	incorporated in the fixed		
	wiring is to be provided		
22.11	Reliable fixing of non-		Pass
	detachable parts that		
	provide the necessary		
	degree of protection		
	against electric		
	shock,moisture or		
	contact with moving		
	parts Test og deserihed		Data
22.14	lest as described		Pass
22.14	No ragged or snarp		Pass
	for the user in normal		
	for the user in normal		
	maintonanco		
22.18	Current carrying parts		Pass
22.10	and other metal parts		F 0.55
	resistant to corrosion		
	under normal conditions		
	of use		
22.31	Neither clearences nor		Pass
	creepage distances		
	between live parts and		
	accessible parts reduced		
	below values for		
	supplementary		
	insulation if wires, screws		
	etc become loose		
22.32	Supplementary and		Pass
	reinforced insulation		
	constructed or protected		
	against pollution so that		
	clearences or creepage		
	distances are not		
	reduced below the		
	values in clause 29		

Clause	Requirement / Test	Remark	Verdict
22.41	No components, other		Pass
	than lamps, containing		
	mercury		
23	Internal Wiri	ng	Pass
23.1	Wireways smooth and		Pass
	free from sharp edges		
	Wires protected against		Pass
	contact with burrs,		
	cooling fins etc		
	Wire holes in metal well		Pass
	rounded or provided		
	with bushings		_
	Wires effectively		Pass
	prevented from coming		
	into contact with moving		
22.7	parts		Dava
23.7	The colour combination		Pass
	green/yellow only used		
24	for earthing conductors		Deee
24	Component Components comply	.s	Pass
24.1	Components comply		Pass
	in rolovant IEC standards		
	List of components	Soo apponded	Pass
	List of components	table	r a 5 5
24.1.1	Capacitors likely to be		Pass
	permanently subjected		
	to the supply voltage		
	and used for radio		
	interference suppression		
	or for voltage dividing,		
	complying with IEC		
	60384-14		
	If capacitors have to be		Pass
	tested, they are tested		
	according to Annex F		
24.2	Appliances not fitted		Pass
	with devices causing the		
	protection device in the		
	fixed wiring to operate in		
	the event of a fault in		
	the appliance		

Clause	Requirement / Test	Remark	Verdict
25	Supply connection and ex	cternal flexible	Pass
	cords		
25.3	Appliance intended to be	e permanently	Pass
	connected to fixed wiring	provided with	
	one of the following	means for	
	connection to the sup	oply mains	
	A set of terminals for the		Pass
	connection of cables of		
	fixed wiring, cross		
	sectional areas specified		
	in 26.6, and the		
	appliance allows the		
	connection of the supply		
	conductors after the		
	appliance has been fixed		
	to its support		
	A set of terminals and		Pass
	cable entries, knock-outs		
	or glands, allowing		
	connection of		
	appropriate types of		
	cable of conduit, and the		
	appliance anows the		
	conductors after the		
	appliance has been fixed		
	to its support		
	For a fixed appliance,		Pass
	constructed so that parts		
	can be removed to		
	facilitate easy		
	installation, this		
	requirement is met if it is		
	possible to connect the		
	fixed wiring without		
	difficultly after a part of		
	the appliance has been		
20	fixed to its support		D
26	Terminals for external	conductors	Pass
26.8	Terminal for the		Pass
	connection of fixed		
	wiring, including the		
	eartning terminal,		
	other		
1	Unei		

Clause	Requirement / Test	Remark	Verdict
26.9	Terminals of the pillar		Pass
	type constructed and		
	located as specified		
27	Provision for ear	rthing	Pass
27.1	Accessible metal parts of		Pass
	Class 01 and 1		
	appliances permanently		
	and reliably connected		
	to an earthing terminal		
	or earthing contact of		
	the appliance inlet		
	Earthing terminals and		Pass
	earthing contacts not		
	connected to the neutral		
	terminal		
27.2	Clamping means of		Pass
	earthing terminals		
	adequately secured		
	against accidental		
	loosening		
27.4	No Risk of corrosion		Pass
	resulting from contact		
	between parts of the		
	earthing terminal and		
	copper of the earthing		
	conductor or other		
	metal		
	Parts providing earthing		Pass
	continuity, other than		
	parts of a metal frame or		
	enclosure, have		
	adequate resistance to		
	corrosion		
27.5	Low resistance of		Pass
	connection between		
	earthing terminal and		
	earthed metal parts		
28	Scrows and conn	octions	Pace
20	Eivings electrical		F d S S
20.1	connections and		F 033
	connections providing		
	earthing continuity		
	withstands mechanical		
	ctraccac		
	511 0303		

Clause	Requirement / Test	Remark	Verdict
	Screws not of soft metal		Pass
	liable to creep, such as		
	zinc or aluminium		
	Screws used for		Pass
	electrical connections or		
	connections providing		
	earthing continuity		
	screwed into metal		
28.2	Electrical connections		Pass
	and connections		
	providing earthing		
	continuity constructed		
	so that contact pressure		
	is not transmitted		
	through non-ceramic		
	insulating material liable		
	to shrink or distort ,		
	unless there is resiliency		
	in the metallic parts to		
	compensate for		
	shrinkage or distortion		
	of the insulating material		
29	Clearances, creepage dist	ances and solid	Pass
	insulation	1	
	Clearences, creepage		Pass
	distances and solid		
	insulation withstand		
	electrical stress		
29.1	Clearances not less than	See appended	Pass
	the values specified in	table	
	table 16, taking into		
	account the rated		
	impulse voltage for the		
	overvoltage categories		
	of Table 15, unless		
29.1.1	Clearances of basic		Pass
	insulation withstand the		
	overvoltages, taking into		
	account the rated		
	impulse voltage		
	The values of Table 16 or	Soo apponded	Dace
	the impulse voltage test	table	rass
	of clause 1/1 are		
	annlicahla		

Clause	Requirement / Test	Remark	Verdict
29.1.3	Clearances of reinforced	See appended	Pass
	insulation not less than	table	
	those specified for basic		
	insulation in Table 16,		
	but using the next higher		
	step or rated impulse		
	voltage		
29.1.4	Clearances for functional		Pass
	insulation are the largest		
	values determined from		
	Table 16 based on the		
	rated impulse voltage		
29.2	Creepage distances not	See appended	Pass
	less than those appriate	table	
	for working voltage,		
	taking into account the		
	material group and the		
	pollution degree		
	Pollution degree 2		Pass
	applies, unless		
29.2.1	Creepage distances of		Pass
	basic insulation not less		
	than specified in Table		
	17		
29.2.4	Creepage distances of	See appended	Pass
	functional insulation not	table	
	less than specified in		
	Table 18		
30	Resistance to heat	and fire	Pass
	For base materials of		Pass
	printed circuit boards,		
	30.2.4 applies		
30.2.4	Base material of printed	Test not	Pass
	circuit boards subjected	required	
	to needle-flame test of		
	Annex E		
	Test not applicable to	See appended	Pass
	condition as specified	table	

Clause	Requirement / Test	Remark	Verdict
31	Resistance to ru	isting	Pass
	Relevant ferrous parts	Zinc plated	Pass
	adequately protected	screws	
	against rusting		
32	Radiation, toxicity and si	imilar hazards	Pass
	Appliance does not emit		Pass
	harmful radiation or		
	present a toxic or similar		
	hazard due to their		
	operation in normal use		
А	Routine test	ts	Pass
	Description of routine	See attached	Pass
	tests carried out by	Safe System	
	manufacturer	of Work	
К	Annex K (Normative)	Overvoltage	Pass
	categories	U	
	The information on		Pass
	overvoltage categories is		
	extracted from		
	IEC60664-1		
_	Overvoltage category is a		Pass
	numeral defining a		
	transient overvoltage		
	condition		
L	Annex L (Informative) Gu	idance for the	Pass
	measurement of clea	rances and	
	creepage dista	nces	
	Sequence for the		
	determination of		
	clearences and creepage		
	distances		
М	Annex M (Normative) Po	llution Degree	Pass
	The information on		Pass
	pollution degree is		
	extracted from IEC		
	60664-1		
	Pollution		Pass
	The microenvironment		Pass
	determines the effect of		
	pollution on the		
	insulation, taking into		
	account the		
	microenvironment		

Clause	Requirement / Test	Remark	Verdict
	Degrees of pollution in		Pass
	the microenvironment		
	For evaluating creepage		Pass
	distances, the following		
	degrees of pollution in		
	the microenvironment		
	are established		
	Pollution degree 2: only		Pass
	non-conductive pollution		
	occurs, except that		
	occasionallya temporary		
	conductivity caused by		
	condensation is to be		
	expected		
0	Annex O (Informative)	Selection and	Pass
	sequence of the tests		
	Description of tests for		Pass
	determination of		
	resistance to heat and		
	fire		
Q	Annex Q (Informative) Se	quence of tests	Pass
	for the evaluation of elec		
	Description of tests for	r appliances	Pass
	incorporating electro	nic circuits	

Clause	Requirement -	Test Result Verdict				
10.1	Table 1: Powe	r Input dev	viation			Pass
Input	P rated (W)	P measur	ed (W)	ΔΡ	Required Δ P	Remark
Deviation						
of / at :						
220V	3Kw	4.7		-	+5% / -10%	See below
50Hz						
240V	3Kw	5.9		-	+5% / -10%	See below
Supplementary Information: Power drawn from the unit off load. Total power is dependent on the						
external lo	ad up to a maxir	num of 3 K	w.			

Clause	Requirement - Test		Result		Verdict
11.8	Table 3: Heating test	, thermoco	uple measurements		Pass
	Test Voltage (V)				
	Ambient (°C)				
Thermocouple Locations Max Temp measured		nperature rise Max Tem d, Δ T (K) (K)		perature rise limit Δ T	
Lower cas	e, below Triac				
Suppleme	ntary Information :				

Clause	Requirement - Test	Result		Verdict	
13.2	Table 4 : Leakage current			Pass	
	Heating appliances : 1.15 x rated inp	ut	254V		
Leakage current between			1 (mA)	Max allowed 1 (1mA)	
Live and ear	th		0.83	2.4	
Neutral and	earth		0.80	2.4	
Supplement	Supplementary Information :				

Clause	Requirement - Test	Result	Verdict
13.3	Electrical strength		Pass
Test voltage applied between :		Test potential applied (V)	Breakdown/flashover (Yes/No)
Live /Neutra	Live /Neutral and earth 1000		No
Supplementa	ary Information :		

Clause	Requiremen	Requirement - Test Result				Verdict
16.2	Table 5: Lea	kage current				Pass
	Single phase appliances :			254		
	Three phase appliances 1.06 x			-		
	rated voltage divided by V3					
Leakage c	urrent betwee	en ;		1 (mA)	Max all	owed 1 (mA)
Live		Earth		1.16	2.4	
Neutral Earth			1.15		2.4	
Suppleme	Supplementary Information :					

Clause	Requirement - Test		Result	Verdict
16.3	Table6: Electric strengt	Pass		
Test volta	Test voltage applied between : Test potentia			Breakdown/flashover (Yes/No)
			(∨)	
Live/Neutral and earth		1250		No
Suppleme	ntary Information :			

Clause	Requirement - Test		Result	Verdict				
17	Table7:Overload prote	Pass						
Thermoco	ouple Locations	Max Ter	mperature rise	Max Temperature rise limit Δ				
		meas	ured, Δ T (K)	Т (К)				
Outer casi	ing 1		43.2	100				
Outer casi	ing 2		32.2	95				
Supplementary Information :								

Clause	Requirement - Test	Result		Verdict			
19	Table8: Abnormal operation con	Pass					
Operational characteristics			Yes / No	Operational conditions			
Are there operation	electronic circuits to control the ap ?	Yes	Manual or timed operation				
Are there '	"off "or "stand-by" position?	No					
The uninte dangerous	ended operation of the appliance r malfunction?	No					

Sub-		Ор	erating	Te	st result o	lescription		PEC description		n	Result		
clause		con	ditions		1								
19.11.2	19.11.2 Triac		Max temperature of		N/A		F	Pass					
			45.6 °C on lower case										
Supplem	enta	ry In	format	ion :	•								
29.1	Tab	ble 9 : Clearances								Pass			
	Ove	ervoltage category				2							
					Type o	Type of insulation :							
Rated	Rated Min. cl (mm)		Basic	asic Supplementary		Reinforced		Funct	Functional		Verdict /		
impulse	impulse		(mm)		(mm)		(mm) ((mm)	(mm)		Remark	
voltage	(V)			. ,	. ,		()			()			
2500 V	500 V 1.5		2.5								Primary to		
											earth		
2500 V	2500 V 1.5			2.5								Live &	
											Neutral		
Supplei	Supplementary Information :												
Clause		Requirement - Test				Result			Ver	Verdict			
29.2		Table10 : Creepage distances, basic, supplementary and Pass											
	reinforced insulation												
Working					Creepage	distance i	n mm						
voltage (V)	Pollution degree											
		1 2				3			Тур	Type of			
								insu	ılati	on			
		Material group			Material group					_			
			1	2	3a/3b	1		2	3a/3b	В	S	R	Result
230					2.65					1			Pass
230					3.71					2			Pass
Supplementary Information :													
1, Measu	1, Measured from mains circuitry to earth across PCB												
2, Measured between Live and Neutral on PCB before fuse													