



Test Report No.
ERTL(N)/90(4)-2K101C0079
Dated : 24 / 05 / 2000

TEST REPORT



Government of India
Ministry of Communications & Information Technology
Department of Information Technology
STQC Directorate

Standardisation Testing and Quality Certification Directorate
ELECTRONICS REGIONAL TEST LABORATORY (NORTH)
[NSI Laboratory under IECEE-CB & NABL Accredited Laboratory]
Block, Okhla Industrial Area, Phase-II, New Delhi-1100 20
INDIA

MEMORANDUM

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2. This report is the record of results of test record only to the particular products submitted to the laboratory for testing and do not apply to other products even though declared to the identical.
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मानकीकरण, परीक्षण तथा गुणवत्ता प्रमाणन निदेशालय
Standardisation, Testing & Quality Certification Directorate
इलेक्ट्रॉनिकी क्षेत्रीय परीक्षण प्रयोगशाला (उत्तर)
ELECTRONICS REGIONAL TEST LABORATORY (NORTH)
नई दिल्ली / New Delhi-110020



NABL ACCREDITED
LABORATORY Nos.
T0001, T1572
C0001, C0177, C0178

Test Report		DATE OF RECEIPT OF ITEM	DATE OF COMPLETION OF TESTING	PAGE NO.
NUMBER	DATE			
ERTL(N)/90(4)-(2010-11)/C0079		21/05/2010	24/05/2010	1 of 5
1. Service Request Form	Number	10T0070		
	Date	26/04/2010		
2. Customer	Name	M/S Power Pulse .		
	Address	E-128 First Floor Dilshad Garden Indl area New Delhi-110095		
3. Manufacturer	Name	M/S Power Pulse		
	Address	E-128 First Floor Dilshad Garden Indl area New Delhi-110095		
4. Description of Item	Nomenclature	Battery charger (dual channel)		
	Make / Trade Mark	Power pulse		
	Model No./Type No.	PP12-120-12M		
	Number of sample/ Serial No.	One/ 2509		
	Year of Manufacture	2010		
	Condition	Good		
5. Name & address where testing carried out (In-house/ Subcontracting /Single window service /On-site /Using Customer Facilities)	Electronics Regional Test Lab. (North), S-Block, Okhla Industrial Area, Phase-II, New Delhi-110020. (India)			
6. Applicable standard/Specification	IEC 61000-4-2,4, 5			
7. Test Method/Operating Procedure	IEC 61000-4-2,4, 5			
8. Environmental Conditions	Temperature	25±2°C		
	Relative Humidity	60% +/- 5%		
9. No of Annexure (If any)	NIL			

Tested by

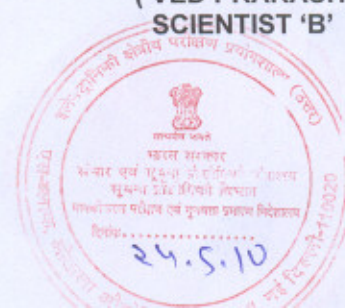
(A.U. Khan)
SCIENTIST 'D'

Approved by

(Sulekh Chand)
SCIENTIST 'E'

Issued by

(VED PRAKASH)
SCIENTIST 'B'





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10. Details of major equipment used

Sl. No.	Nomenclature	Make	Model/ Type No.	Calibration Valid up to
01	EFT Generator	KEYTEK	M801-04H	11-09-2010
02	Surge generator	KEYTEK	801 PLUS	07-07-2010
03	ESD simulator	KEY TEK	MZ-15	07-07-2010

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Test Results:

Sl.No.	Cl. No.	Parameter	Nominal Value/ Requirements	Measured Value/ Observations	Remarks
1		Functional check At 230 volt Ac input, 50Hz	Out put shall be 13.5+/-0.2 Volt DC(boost mode)	In compliance	Satisfactory
2	----	Immunity to Electric Fast Transient / Burst test Pulse : 5/50 ns Burst duration : 15 ms Burst period :300 ms Pulse repetition test : 5 KHz Amplitude : 2.0 KV on Ac line EUT : energized & under normal operating condition Test Method : IEC61000-4-4	During and after the test Battery Charger shall work satisfactory for its intended use.	In compliance	Satisfactory
3		Functional check (after EFT test) At 230 volt Ac input, 50Hz	Out put shall be 13.5+/-0.2 Volt DC (boost mode)	In compliance	Satisfactory
4	---	Electrostatic discharge Air discharge: +/-8 KV Contact discharge:+/-4KV No. of discharge: 10 On all accessible point and on enclosure Test method: IEC 61000-4-2	During and after the test Battery Charger shall work satisfactory for its intended use.	In compliance	Satisfactory
5		Functional check (after ESD test) At 230 volt Ac input, 50Hz	Out put shall be 13.5+/-0.2 Volt DC (boost mode)	In compliance	Satisfactory

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S.P. Issue No. : 02, Jan 2010



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Test Results:

Sl.No	Cl. No.	Parameter	Nominal Value/ Requirements	Measured Value/ Observations	Remarks
6	-----	Surge Test Pulse: 1.2/50 uSec Amplitude: 1.0(Symmetrical) 2.0 (Asymmetrical) Polarity : Pos & Negative No. of pulses Applied: 5 each Polarity each mode Test On : I/P supply EUT : under normal working condition Test Method : IEC61000-4-5	After the test Battery Charger shall work satisfactory for its intended use.	In compliance	Satisfactory
7		Functional check (after Surge test) At 230 volt Ac input, 50Hz	Out put shall be 13.5+/-0.2 Volt DC (boost mode)	In compliance	Satisfactory

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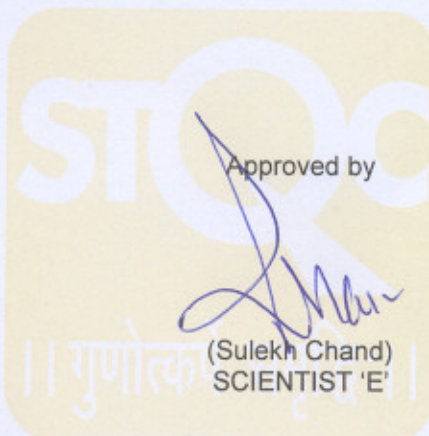
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- Remarks:
- This report pertains to the parameters mentioned in the test results column.
 - Uncertainty in measurement has been taken into consideration while declaring the results of the parameters mentioned in the report.
 - Battery Charger meets the requirements of the applicable standard/ specification

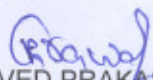
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AGGREDITATIONS

National

- Approved Laboratory under National Accreditation Board for Testing and Calibration Laboratory (NABL India) for testing and calibration as per ISO/IEC 17025:2005.
- Approved Laboratory for Calibration of Equipment by Director General of Civil Aviation, New Delhi.
- Approved Laboratory of Bureau of Indian Standards for specific products. (Energy meters, taxi meters, Electronic Ballast) etc.
- Approved Laboratory for testing energy meters by CBIP.
- Approved Laboratory for testing weighing machine by Department of Consumer Affairs-Weight and Measure, New Delhi.
- Recognized Laboratory by DGS & D for testing of specified electronics products.

International

- Independent Test Laboratory under IECQ system of International Electro Technical Commission.
- Approved test Laboratory for Safety under IECCEE-CB Scheme.
- FCC (Federal Communications Commission), USA for EMI/EMC testing.
- Recognised Laboratory by Saudi Arabia Standard Organization (SASO).



NABL ACCREDITED LABORATORY

Form No. : TRF-2008

TESTING : T0001

CALIBRATION :
Electrotechnical : C0001
Mechanical : C0177
Thermal : C0178

OUR SERVICES AT A GLANCE

TESTING SERVICES:

COMPONENT TESTING

- Active - (1C discrete & Semiconductor devices)
- Passive (R, L, C, Relays)
- Battery testing
- Screening

EQUIPMENT TESTING

- Energy meters, 1Φ, 3Φ
- Ballast and CFL Lamps
- Power Electronic (UPS, Inverter, Stabilizers)
- Consumer Electronics
- I.T. Products & Auto/Taxi meters

ENVIRONMENTAL/RELIABILITY

- Climatic Test : (-70°C to 300°C) RH - 95%
- Vibration : Sine & Random
Capacity : 350 kgf to 5000 kgf
- Durability Test: Bump and Shock Test etc.
- Walk in Chamber available for dry heat, damp and cold temp. (Size: 3.8*2.2*2.4M)

EMI/EMC

- FCC listed site for EMC Measurement.
- Anechoic Chamber for Radiated emission
- GTEM cell upto 3 GHz for RS Measurement
- Testing for CE Marking, FCC listing and EMC mark

SAFETY

- House hold Appliances
- Medical Equipment
- IT Products
- Consumer Products
- Machines & low voltage Directive
- Luminairy
- Components & devices
- Testing of products for CE Marking, SASO, SONCAP etc.

CALIBRATION SERVICES:

- With assured traceability to national standard in electro-technical as well as thermal and mechanical in house and on - site calibration
- HPCC (High Precision Calibration Centre)
- Optical Fibre Calibration
- Primary Standard for Temperatures (Fixed Point Cell)
- Primary Standard for Pressure (Range : 2 bar -1000 bar) uncertainty - 100 ppm.)
- Resistance, AC/DC - Volt, AC/DC Current and Freq. and Power/Energy (50 ppm)
- Calibrator Calibration, Opto Electronic/Fibre optic equipment
- R, L, C Standard
- RF Calibration upto 40 GHz
- Temperature, Pressure and Mass, Mechanical Dimension

DEVELOPMENT ASSISTANCE

- Providing facilities for product development/ evaluation in testing.

OTHER SERVICES

- Quality and knowledge support services with wide collection of related books, standards/ specifications/data books etc. open to industry free of costs.

For further Details, Please Contact: -

Head RM/Customer Service Cell Ph.: 26386205, 26386498, 26386206, 26386118

Fax : 91(11) 26384583, 26387163.

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