

CPRI

TEST REPORT



Central Power Research Institute

(A Govt. of India Society)

**P.B.No. 8066, Sadashivanagar Post Office,
Sir C.V. Raman Road,
Bangalore - 560 080 (INDIA)**

CENTRAL POWER RESEARCH INSTITUTE



TEST REPORT

Test Report Number : CPRI BLREATD20T0188 Date: 01 July 2020

Name and Address of the Customer : M/s. Green Secure Energy Systems,
#9 Sri Lakshmi Industrial Estate, Thigalarapalya
Main road, Peenya 2nd Stage, Bangalore – 560 058.

Name and Address of the Manufacturer : M/s. Green Secure Energy Systems,
#9 Sri Lakshmi Industrial Estate, Thigalarapalya
Main road, Peenya 2nd Stage, Bangalore – 560 058.

Particulars of sample tested : Battery Charger Panel
Type : Indoor
Description of test sample : Refer Sheet 2 of 5
Serial Number : GSS05200833
Number of samples tested : One
Date(s) of Test(s) : 30 June 2020
CPRI Sample code Number(s). : EATDIP20S0102
Particulars of tests conducted : Refer Sheet 3 of 5
Test in accordance with Standard/Specification : IS/IEC 60529:2001 RA 2019.

Sampling Plan : Not Applicable
Customer's Requirement : 1. Ingress of 1mm steel rod (IP 4X) and Visual Observation for entry of water (IP X2).

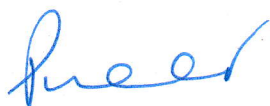
Deviations if any : Nil

Name of the witnessing persons
Customers representative : Mr. Jagadeeswaran. L, Application Engineer.
Other than customer's representatives : None
Test subcontracted with address of the laboratory : None

Documents constituting this report (in words)
Number of Sheets : Five
Number of Oscillogram(s) : Nil
Number of Graph(s) : Nil
Number of Photograph(s) : Nil
Number of Test Circuit Diagram(s) : Nil
Number of Drawing(s) : Two


(D. Venkatesh)
Test Engineer




(Dr. P. Chandra Sekhar)
Head of Division
Approved by

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DESCRIPTION OF THE SAMPLE TESTED

Sample : Battery Charger Panel
AC Input : 415V +/-10%
DC Output : 110V DC +/-10, 150AH
Rated Current : 40A FCBC
Rated frequency (Hz) : 50±5% Hz

(D. Venkatesh)
Test Engineer

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SUMMARY OF TESTS CONDUCTED

1. Tests conducted : IP 42 Test
2. Rating for which tested : Input = 415V±10%
Output= 110 DC +/-10%
3. Schedule of tests

Tests Conducted	Clause Numbers	Sheet
IP 4X	11.5 and 13.2	4 of 5
IP X2	11.5 and 14.2.2	4 of 5

4. Oscillogram Numbers : Nil
5. Graph Numbers : Nil
6. Photograph Numbers : Nil
7. Test Circuit Diagram Numbers. : Nil
8. Drawing Numbers

The manufacturer has guaranteed that the sample submitted for the test(s) has been manufactured in accordance with the following drawing

Sl. No.	Drawing Number	Sheet Number	Revision Number	Date
1	CPRI-02	Sheet 1 of 2	0	-
2	CPRI-02	Sheet 2 of 2	0	-

It is verified that these drawings adequately represent the sample tested. Verification of this drawing by CPRI is limited to dimensional check only wherever possible.


(D. Venkatesh)
Test Engineer

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TEST RESULTS

Condition of Sample on the Receipt : New
Serial Number of sample tested : GSS05200833

Sl. No.	PARTICULARS		OBSERVATIONS
	TESTS CONDUCTED	REFERENCE CLAUSE	
1.0	IP 4X Test, as per IS/IEC 60529:2001 RA 2019 standard.	Clause No 11.5 and 13.2 Protection against access to Solid foreign objects – Insertion of Test Probe of 1.0 +0.05 mm dia.	Rigid steel rod of $\Phi 1.0^{+0.05}$ mm, with edges free from burrs, applied with a due force of $1N \pm 10\%$ against all openings provided, and the steel rod did not penetrate nor pass through any of the openings provided on the "Battery Charger Panel" Enclosure. "Protection is Satisfactory"
2.0	IP X2 Test, as per IS/IEC 60529:2001 RA 2019 standard.	Clause No. 11.5 and 14.2.2 Protection against harmful ingress of water – Dripping rain $3^{+0.5}$ mm per minutes, 2.5 minutes for each position of 15° tilt for total duration of 10 minutes.	No entry of water found observed inside the "Battery Charger Panel" Enclosure.

Conclusion: The sample tested complies with the requirement of clause No. 11.5, 13.2, 14.2.2 and 14.3 of IS/IEC 60529:2001 RA 2019 for the test conducted, subject to the enclosure meeting the declared degree of protection of final product after assembly of electrical equipment enclosed as per Clause No 11.5.


(D. Venkatesh)
Test Engineer

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NOTE

- a) The Test results relate only to the sample(s) tested.
- b) Publication or reproduction of this Test Report /Test Certificate in any form other than by complete set of the whole Test Report /Test Certificate and in the language written is not permitted without the written consent of CPRI.
- c) Any Corrections/erasure invalidates the Test Report/Test Certificate.
- d) NABL has Accredited this laboratory as per ISO/IEC17025:2017, vide certificate no.TC-5452 for the tests carried out.
- e) Any anomaly/discrepancy in the Test Report / Test Certificate should be brought to the notice of CPRI within 45 days from the date of issue embossed.


(D. Venkatesh)
Test Engineer