





Dated: 13/10/2023 Report No.: AAEMT/S-ENV/231011-01 ULR No. TC859723000000751F ENVIRONMENTAL TEST REPORT Discipline: Electronics Group: Environmental Test Facility AAEMT/S-ENV/231011-01 Report No....: 13/10/2023 Date of Issue....: 06 Pages (Including 2 attachments) No. of Pages....: AA ELECTRO MAGNETIC TEST LABORATORY PRIVATE LIMITED Testing laboratory and its address: Plot No.174, Udyog Vihar Phase 4, Sector-18, Gurugram-122016, Haryana, India. ENERSOL SYSTEMS PVT. LTD. Manufacturer's Name....: 510, Pace City-2, Sector-37, Gurgaon, Haryana. Address....: ENERSOL SYSTEMS PVT. LTD. Applicant's Name....: 510, Pace City-2, Sector-37, Gurgaon, Haryana. Address....: Multi-Function Meter (Power Factor Meter) Test item description....: Trade Mark....: ENERSOL. Model/Type reference....: MFR-4210 240 V AC Ratings....: 307977 Serial No....: AA Electro Magnetic Test Laboratory Private Limited Test Report Form(s) Originator....: Master TRF....: 26/06/2019 Test Report Form No....: AAEMT PAR TRF V1.0 Applicable Specification....: See Attachment 1 Test Method/Standard....: See Attachment 1 Tested by: Authorized & Reviewed by: BUN AM eepale temor Deepak Kumar Bittu Kumar (Sr. Test Engineer) (Lab Manager) Name/Designation Name/Designation Date: 13/10/2023 Date:13/10/2023







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Table – List of Attachments		
Attachment No.	Attachment Description	No. of pages in Attachment
Attachment – 1	Test Summary	01 Page (Page no.03)
Attachment – 2.	Photographs	02 Pages (Page no.05-06)
General remarks:		
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.		

Possible test case verdicts:	
- test case does not apply to the test object:	N/A
- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement	F (Fail)
Dealerstier of conferences	D1

- Declaration of comornity	Declaration of comornity of the results is based as per the
	standard limits

Testing	See below
Date of receipt of test item:	11/10/2023
Date(s) of performance of tests:	11/10/2023 to 12/10/2023
Condition of Sample on receipt	Good / Satisfactory / Fit for Testing

Ambient Temperature : $(25 \pm 2)^{0}$ C Ambient Humidity : (50% + 25)% Rh







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	<u>Attachment – 1 (Test Summary)</u>			
S. No.	Tests	Test Condition	Test Method/Standard	Result
1.	Dust Test (IP 5X)	Dust test As per cl. 13.4 and 13.5.2 of IEC 60529 : 2013	As per IEC 60529:2013	P
2.	Water Test (IP X4)	Water Test As per cl. 14.2.4 and 14.3 of IEC 60529: 2013	As per IEC 60529:2013	P







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Sr. No.	Test/ Requirement Name	Test Result/ Observation	Verdict
1.	Initial measurement: Visual inspection, mechanical and electrically check.	In compliance Equipment is checked visually, electrically and mechanically found satisfactory before the dust test.	P
	IP 5X (Dust test as per cl. 13.4 and 13.5.2 of IEC 60529):2013 Equipment shall be subjected to a stream of dust in the dust chamber for 8 hours. The protection is satisfactory if, on inspection, talcum powder has not accumulated in a quantity or location such that, as with any other kind of dust, it could interfere with the correct Operation of the equipment or impair safety.	Conditioned	P
	Final measurement: Visual inspection, mechanical and electrically check.	In compliance Equipment is checked visually, electrically and mechanically found satisfactory after dust test.	P
2.	Initial measurement: Visual inspection, mechanical and electrically check.	In compliance Equipment is checked visually, electrically and mechanically found satisfactory before the water test.	P
	IP X4 (Water Test- Protected against spraying water cl. 14.2.4 and 14.3):IEC 60529: 2013 The oscillating tube has spray holes over the whole 180° of the semicircle. The tube is caused to oscillate through an angle of almost 360°, 180° on either side of the vertical, the time of one complete oscillation (2 x 360°) being about 12 s.	Conditioned	n.
	The test duration of the test is 5 min. After testing enclosure shall be inspected for ingress of water if any water has entered it shall not: - be sufficient to interface with the correct operation of the equipment or impair safety. - deposit on the insulation parts where it could lead to		P
	tracking along the creepage distance. - reach live parts or winding not designed to operate when wet. - accumulate near the cable end or enter the cable if any.		
	Final measurement: Visual inspection, mechanical and electrically check.	In compliance Equipment is checked visually, electrically and mechanically found satisfactory after water test.	P

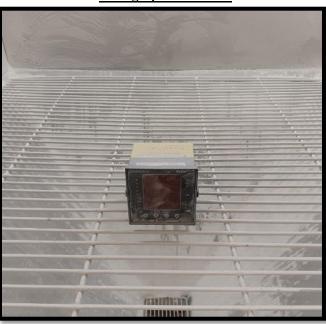






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Attachments-2 Photograph of dust test



Photograph of water test

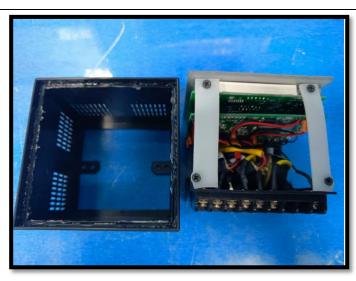








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Photograph after the test



*****END OF TEST REPORT*****



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