



ميديل ايست لخدمات الفحص Middle East Testing Services

TEST REPORT

Report No.: MR-120523-027

Client / Establishment : M/s. ENERCAP POWER INDUSTRIES L.L.C
Office No. 604, Lake Central Tower,
Business Bay, Dubai ,1111, Dubai

Sample ID : MS-120523-027
Sample Receiving Date : 12/05/2023
Reporting Date : 30/05/2023
Date of Analysis : 16/05/2023-19/05/2023
Tested by : SC
Issue No. : 01 (Re-Issue Date: NA)

Sample Information:

Sample Description : ENERGY STORAGE
Trade Mark : ENCAP
Model No : 10K-48-1C-4PA-X-X-X-1V0_GEN1
Serial No : EN02048V00330023D00075
Rating : 48V DC, 10kWh

Image of received sample:



The corresponding test results are furnished in following page

Prepared by


Chemist

Material Science Division (MSD)
Employee Code: METS AJ EC 180



Verified by



Team Head
Material Science Division (MSD)
Employee Code: METS AJ EC 110



ميديل ايسست لخدمات الفحص Middle East Testing Services

Report No.: MR-120523-027

Test Results:

Date of analysis: 12/05/2023-27/05/2023

Test method: IEC 61071:2017

Parameter	Requirement: IEC 61071:2017	Result / Observation	Verdict
Voltage Test Between Terminal	Capacitor shall be subjected to an a.c voltage test as specified in table 2a or table 2b	No Failure	P
	No flashover or permanent breakdown shall occur.		P
DC Voltage Test Between Terminal and Case	Capacitor shall be capable withstanding without breakdown for 10s, a test between terminal and the case	No puncture, No flashover	P
	Twice the rated voltage+1000V but not less 2000V	-	N/A
MARKING OF THE UNITS			
Rating Plate			P
Name of Manufacturer		ENCAP	P
Identification Number		10K-48-1C-4PA-X-X-X-1VO _ GEN1	P
Manufacturing year (may be in code or part of identification number)		code	P
U_N		48VDC	P
Total Energy		10kWh	P
Choice of creep age distance and Clearances	The creep age distance over the external surface of terminal insulation and the clearances between the exterior of terminal connection or between such live parts and the metal case of the capacitor	-	P
	Creep age Distances	>5.0 mm	P
	Clearance	>5.0 mm	P



Page 2 of 3

Issue No: 2
Form MRF 40



ميديل ايست لخدمات الفحص Middle East Testing Services

Report No.: MR-120523-027

Date of analysis: 23/06/2022-11/07/2022

Test Results:

Test method: IEC 61071:2017

Parameter	Requirement: IEC 61071:2017	Result / Observation	Verdict
Thermal Stability	Ambient temperature	25.0°C	N/A
	AC current applied as per 1.1 I _{max} for 48 hrs	-	
	Capacitance after the test	-	
	Tan delta:	-	

N/A - Test case does not apply to the test object

P (Pass) - Test object does meet the requirement

F (Fail) - Test object does not meet the requirement

Remarks: The product complies with the requirement of the tests performed as per IEC 61071:2017

The above test results are only applicable to the sample (s) referred above. This report shall not be reproduced except in full, without the written approval of METS laboratory.

For further clarification of reports, please contact qc@metslab.com

Image of marking



Issue No: 2

Form MRF 40