

Plot No. N-47, Sector-5, Bawana Industrial Area, DSIDC, Bawana, Delhi-110039 Ph.: 011-45042471, +91-9871727340 Email: iectestlabs@gmail.com



Web.: www.iectestlabs.com

TESTIAD	Discipline: Electrical	Group: Cell	s & Batteries	LD JEO TEOT LABOUR
TESTING	Location of testing Performance of the	IEC Test Labs LLP		
TESTLAS	Laboratory & its address:	Ground Floor, Plot		
IEST LAB	SILP IEU IEST LABSILP IEU IEST LABSILP IEU IEST LA	Industrial Area, DS	IDC, Bawana De	thi-110039 LABS LL
TEST LAB	Test Specification: PIECTEST LABS LLP IECTEST LA	IEC 61427-1:2013 P IEC TEST LABS LLP IEC TEST LABS		LP IECTEST LABS LI
TEST LAB	Report No.: IEC/N24121807 BS LLP IEC TEST LA	Issue Date: LABS LL	31/12/2024	LP IEC TEST LABS LI
TEST LAB	ULR-TC891724000002056F ST LA	No. of Pages	Page 1 of 4	LP IECTEST LABS LI
TEST LAB	Name & Contact Address of Applicant & LA	INTERLIGHT TECH		
TEST LAB	sManufacturer: BS LLP IEC TEST LABS LLP IEC TEST LA	KHASRA NUMBER 6295/1795/2, VAKIA RAKBA SULTANWIND, ABADI FREEDOM, NAGAR SANT AVENUE, AMRITSAR, PUNJAB, 143001		
TEST LAB				
TEST LAB	PART A. PARTICULARS OF SAMPLE SUBMITT		AR, PUNJAB, 1	43001 TEST LABS LI
TEST LAB	SILP IECTESTIARS UP IECTESTIARS UP IECTESTIA		AD BATTERY	LP LEG TEST LABS L
TESTLAB	a) Sample Name: SLLP IEC IEST LABS LLP IEC TEST LABS LLP IECTEST LA	LEAD ACID TUBUI Application	P IEC TEST LABS L	LP TEC TEST LABS L
TEST LAB	b) Sample Description	12V, 50Ah@C10	P IECTEST LABS L	LP IECTEST LABS L
TEST LAB	S L(Rating/Class/Type, etc): ST LABS LLP JEC TEST LA	BS LLP IEC TEST LABS LL		
TEST LAB	SLC) Model Number: JECTESTLABSTLP JECTESTLA	BS ILF50EO TEST LABS LL	P IECTEST LABS L	LP IECTEST LABS L
TESTLAB	s Ld) Trade mark: LLP IEC TEST LABS LLP IEC TEST LA	BS FEBRUARE N	The Marketon (8)	LP TECTEST LABS L
TEST LAB	S LLP IECTEST LABS LLP IECTEST LABS LLP IECTEST LA	MIERL		
TEST LAB			THE BATTERY EXPERTS	
TESTLAR	STIP AFC TEST LAPSILE FECTEST LARS	The second second	PTELTESH ABST	IP IECTESTIABS
TESTIAR	e) Quantity of Sample:	01	P IEC TESTANOS L	I PARATESTA REL
TESTIAR	f) Condition of Sample when received:	OK / Not OK	TOTAL	
TESTIAR	g) Document Number:	7.8F-01		
TEOTIAN	h) Date of Rec <mark>eipt of Sampl</mark> e:	18/12/2024		EJAPA
TESTLAS	i) Job Order N <mark>o.: ABS LEP LEO LEO LEO LEO LEO LEO LEO LEO LEO LEO</mark>	N24121807	P IEU IES II III III	
IESI LAB	j) Date of Com <mark>mencement</mark> of Testing:	18/12/2024 Decreed to 18/12/2024		
TESTLAB	k) Date of Comp <mark>letion of Testi</mark> ng:	19/12/2024 AS TEST - BS		
TEST LAB	I) Environmental Conditions:	25°C ± 5°C LABS LLP		LP ILOUE ABS L
TEST LAB	m) Customer Reference Number:	BS LLP TECTEST LABS LL	P TECTEST LABS L	LP IECTEST LABS L
TEST LAB	n) Report refers to the Sample Received at:	Permanent Facility	P IEC TEST LABS L	LP IECTESTLÂBS L
TEST LAB	O) Decision Rule applicable: ABS LLP AEC TEST LA	Yes / No est labsilp leg test labsilp leg test labsi		
TEST LAB	p) Code No. / Sr. No. / Batch No/Date of EST LA	BS 2024EC TEST LABS LL		
TEST LAB	Manufacturer/Seal & IO's sign, if any		LP_IEC_TEST_LABS_L	
TEST LAB	q) Any Other Information, if any:		LP JEC TEST LABS L	
TEST LAB	PART B: SUPPLEMENTARY INFORMATIONS			P JECTEST LABS L
	a) Reference to sampling procedure, wherever		P JEC TEST LABS L	N/A
	b) Supporting documents for the measurements taken and results derived graphs, tables, sketches and/or photographs, as appropriate to test report,			See attachmen
	any [To be attached]:	, as appropriate to te	P LECTEST LABS L	No.1
	c) Deviation from the test methods as prescri	ibed in relevant ISS/	work TEST LABS L	LP TENILABS LI
	Linstructions, BS LLP JEC TEST LABS LLP JEC TEST LA			IP IEC TEST LABS LI

Test	ted by: TLABSILP FECTESTIAN	Approved by / Reviewed By / Authorized Signatory:	Issued By: LP IECTEST LABSILLP
BS LLP BS LLP	IEC TENT LABSILLE IEC TEST LABIEC TEST LABSILLE IEC TEST LABSILLE IEC TEST LAB	LLP JECTEST LABS LLP LLP JECTEST LABS LLP LLP JECTEST LABS LLP	LABS LLP TE LABS LLP LABS LLP LABS LLP LABS LLP LEC TEST LABS LLP LEC TEST LABS LLP
S LLP	Parveen (Sr. Testing Engineer)	Parvinder (Technical Manager)	Manish Jadon
BS LLP	Date: 31/12/2024 EST LAB	LLP 160 TE Date: 31/12/2024 ABS LLP	Date: 31/12/2024

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TEST REPORT

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Dated: 31/12/2024

Discipline Name: Electrical Group Name: Cells & Batteries

	SI. No.	Requirement	+ Test	Measured Value/ observations TLABSTLABSTLABST	VerdictsTLABSTLP TECTES	
	LABS LLP	Capacity Test	IEC TES	Standard to be Referred for testing: IEC 60896-11: Test cell or batteries shall be prepared in accordance with	Complied PIECTEST LABS LLP IECTES	
	LABS LLP	IEC 61427-1)		Clause 13 dectest labsile dectest labsile dectest labsile dectest labsile dectest labsile dectest labsile.	The average	
	LABSILE	JEC TEST LABS LLP		In order to facilitate temperature of each pilot cell shall be read immediately prior to discharge. The individual	electrolyte temperature: 25.4°C.	
	LABS LLP	IEC TEST LABS LLP		readings shall be between 15°C and 30°C. The average initial temperature V is calculated as the	P IECTEST LABS LLP IECTES	
	LABS LLP	ECTEST LABS LLP		arithmetic mean of the individual values. The ambient temperature shall be maintained between 15°C and 30°C.	P IECTEST LABS LLP IECTES	
	LABS LLP	IEC TEST LABS LLP		Within 1h to 24h after the end of charging, the cells or the battery shall be subjected to a discharge current.		
	LABS LLP	IEC TEST LABS LLB		This current shall be maintained constant within	battery subjected to discharging.	
	LABS LLP	IEC TEST LABS		±1%throughout the whole discharge time. During discharging manual adjustments may be necessary. In	P JECTESTLABSTLP JECTES	
	LABS LLP	IEC TEST LAB		these circumstances deviations of the discharge current	P IECTEST LABSILP IECTES	
	LABS LLP	IEC TEST LABS LE		shall be tolerated, provi <mark>ded they are within ±5% of the specified value. The</mark> voltage between the terminal of the	P JECTEST LABSILE JECTES	
	LABS LLP	IEC TEST LABS LLP	IEG TES	cells or the battery shall either be recorded automatically against time or taken by reading from a voltmeter .In the	P IEC TEST LABS LLP IEC TES	
	LABS LLP	IEC TEST LABS LLP	IEC TES	latter case, readings shall be made at least 25%.50% and	The Discharging time	
ST	LABS LLP	IEC TEST LABS LLP	IEG TES	T LABS LLP JECTEST LABS LLP JECTEST L t = Crt IEC TEST LABS L	observed on first cycle:	
ST	LABS LLP	IEC TEST LABS LLP	IEC TES	And then at suitable time intervals, which permits the	P (ECTEST LABS LLP (ECTES	
ST	LABS LLP	IECTEST LABS LLP	IEC TES	detection of the transition to the final discharge voltage Uf	P TECTEST LABSILE TECTES	
ST	LABS LLP	JEC TEST LABS LLP	IEC TES	Where n is the number of cell The discharge time shall be noted. The tests shall be terminated when the average	Final voltage:	
ST	LABS LLP	IEG TEST LABS LLP	EC TES	voltage is reached or a cell or monobloc has reached a	6x1.8=10.8 ABS LLP LECTES	
ST.	LABS LLP	IEC TEST LABS LLP	IEC TES	voltage of U = Uf-200 mV pc or, in the case of monoblocs with n cells	P FECTEST LABSILE FECTES	
ST	LABS LLP	IEC TEST LABS LLP	IEC TES	TLABSILP TECTEST LABSILP TECTEST LABSILP TECTEST LABSIL	P IECTEST LABSILP IECTES	
ST	LABS LLP	EC TEST LABS LLP	IEC TES	T LABSILP JECTEST LABSILP JUST $\sqrt{n \times 200 \mathrm{mV}}$ TEST LABSIL	P TECTEST LABSILLY TECTES	
51 81	LABS LLP	IEC TEST LABS LLP	IEC TES	The measured capacity C(Ah) at the initial average	LP TECTEST LABSILLE TECTES LP TECTEST LABSILLE TECTES	
ST		IEC TEST LABS LLP	IEC TES	temperature V is calculated as the product of the discharge current (in amperes) and the discharge time in (hours) If	P IECTEST LABSILIP IECTES	
ST		IEC TEST LABS LLP	IEC TES	the initial average temperature v is different from the LABS L reference temperature (20°C or 25°C), SILER DECITES LABS L	P JECTEST LABSILE JECTES	
ST		IEC TEST LABS LLP	IEC TES	TLABSILP IECTESTLABSILP IECTESTLABSILP IECTESTLABSI	P TECTEST LABSILE TECTES	
ST	LABS LLP	TEC TEST LABS LLP	IEC TES	PLABSILIP JEG TEST LABSILIP JEG TEST LABSILIP JEG TEST LABSIL	P JECTEST LABS LLP JECTES	





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TEST REPORT

Report No: IEC/ N24121807 TEST LABS L		Page 3 of 4	IE
Dated: 31/12/2024	IEC 61427-1: 2013	ULR- TC891724000002056F	
Discipline Name: ElectricalEC TEST LABS L		Group Name: Cells & Batteries	IE

SI. No.	Requirement	+ Test	Measured Value/ observations	P IEG Test LABS LLP IEG
LABS LLP	IEC TEST LABS LLP		the measured capacity shall be corrected by means of the	P IECTEST LABSILP IEC
	IEC TEST LABS LLP		following equation to obtained the actual capacity Ca at the	P IECTEST LABS LLP IEC
	EC TEST LABS LLP	IEC TES	chosen reference temperature of 20°C or 25°C.	LP IECTEST LABS LLP IEC
	IEC TEST LABS LLP	IEC TEST	$\begin{array}{c} Ca20^{\circ}C = C/[1+\lambda(v-20^{\circ}C)] \\ \text{LABS LLP IEC TESTABS LP} \end{array}$	LP IECTEST LABSILP IEC
	IEC TEST LABS LLP	IEC TES	LABSILP IECTEST LABSIL ORECTEST LABSILP IECTEST LABSIL	@25°C= 50.2Ah
	IEC TEST LABS LLP	IEC TES	LABSILE IE Ca25°C= $C/[1+\lambda(v-25^{\circ}C)]$ IEC TAhLABSIL	LP IECTEST LABSILP IEC
	IEC TEST LABS LLP	IEC TES	LABSILP IECTEST LABSILP IECTEST LABSILP IECTEST LABSIL	On first cycle 100%
	IEC TEST LABS LLP	IEC TES	LABSILP IECTEST LABSIL	capacity observed of
	IEC TEST LABS LLP		The coefficient Ashall be taken as 0.006 for discharge as a	rated capacity
	IEC TEST LABS LLP	A STATE OF THE PARTY OF THE PAR	slower than the 3h rate and 0.01 with discharges with faster rates.	P IEC TEST LABS LLP IEC
	IEC TEST LABS LLP		The cell or battery shall be recharged in accordance with	P IECTEST LABS LLP IEC
	IEC TEST LABS		Clause 13. FOR TELESIA DE TECHNINGE IN ACCORDANCE WITH	100% percent rated
	IEC TEST LAB		A new battery being repeatedly discharged and charged in	capacity observed on 1 st cycle.
	IEC TEST LAB		accordance with 14.3 to 14.9 shall supply at least ST LABS L	P IECTEST LABS LLP IEC
	IEC TEST LABS L		Ca= 0.95 Crt at the first cycle	P IECTEST LABS LLP IEC
	IEC TEST LABS LLP	IEC	Ca= Crt at the fifth cycle.	P IEC TEST LABS LLP IEC

Table:1	ESTLABSILP ECTESTLABSILP ECTESTL	ABSILP TECTEST LABSILP TECTEST LABSILP TEC
ST LABSILP BETEST LABSILP BECT	EST LA Capacity declared by TEST L	Discharge capacity observed in
Capacity Test at 25°C	50Ah@C10	50.2Ah@C10





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Discipline Name: Electrical

IEC 61427-1: 2013

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Group Name: Cells & Batteries

Attachment-1



Marking label of battery

Photograph of the sample:



Side View of battery

