

IEC TEST LABS LLP

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

Discipline: Electrical TEST LABS LLP TEST LAB	Group: Cells & Batteries	PHECTESTLABSILE	
Location of testing Performance of the ESTLAB	IEC Test Labs LLP Test Labs LLP Tec Test Labs LLP		
Laboratory & its address: TLABS LLP IEC TEST LAB	Ground Floor, Plot No.N-47, Pkt.N	Sector-5. Bawana	
LP IEC TEST LABSILP IEC TEST LABSILP IEC TEST LAB	Industrial Area, DSIDC, Bawana D	elhi-110039 ABS LLP	
Test Specification: IEC TEST LABS LLP IEC TEST LAB	S IEC 61427-1:2013 IEC TEST LABS LL	P IECTEST LABS LLP	
Report No. : ABSIEC/N24121811S LLP HECTEST LAB	Issue Date: ABS LLP 31/12/2024	P IEC TEST LABS LLP	
ULR No.: TLAE SULR-TC891724000002060FTLAB	No. of Pages Page 1 of 4	P IEC TEST LABS LLP	
Name & Contact Address of Applicant & STIAB	INTERLIGHT TECHNOLOGIES PRIVATE LIMITED		
Manufacturer:	KHASRA NUMBER 6295/1795/2, V		
	SULTANWIND, ABADI FREEDOM	, NAGAR SANT	
DART A DARTICULARS OF SAMPLE SURVEY	AVENUE, AMRITSAR, PUNJAB, 1	43001	
PART A. PARTICULARS OF SAMPLE SUBMITT		L ILC TEST INDO LLE	
a) Sample Name: ECTEST LABS LLP ECTEST LAB	LEAD ACID TUBULAR BATTERY	For Solar	
b) Sample Descriptionest LABS LLP JECTEST LAB	Application ABS LP EQ TEST LABS LL	r IEG IEST LABS LLP	
(Rating/Class/Type, etc):	112V, 200Ah@C10 IEC TEST LABS LL		
c) Model Number:	IL 200	P TEO TEST LABS LLP	
d) Trade mark:	CLLE TECTIES LABSILE TECTES LABSILE	P IEG TEST LABS LLP	
LP JEG TEGT ADDILL JEG TEGT AND LEG TEGT AD	S INTERLEGHT SLLP IECTEST LABS LLP		
	CHARGE YOUR TOMORROW		
e) Quantity of Sample:	01 IFO TEST LARS LIP IFO TEST LARS LI	P TECTEST LABSILIP	
f) Condition of Sample when received:	OK / Not OK	F IEO IEST LABS LLP	
g) Document Number:	7.8F-01		
h) Date of Receipt of Sample:	18/12/2024		
i) Job Order No.:			
j) Date of Commencement of Testing:	N24121811 PROPERTY AND ADDRESS OF THE STATE	THE PROPERTY OF STATE	
k) Date of Completion of Testing:	23/12/2024 TEST TEST		
I) Environmental Conditions:	28/12/2024	NO BUT HAND HAS LUR	
m) Customer Reference Number:	25°C ± 5°C ASSILED TEST ASSILED		
n) Report refers to the Sample Received at:	S LP JEC TEST LABS LLP JEC TEST LABS LLP JEC TEST LABS LLP		
o) Decision Rule applicable:	Permanent Facility		
p) Code No. / Sr. No. / Batch No/Date of	Yes / No 2024		
Manufacturer/Seal & IO's sign, if any	LEP TEC TEST LABSILLP TEC TEST LABSILL		
q) Any Other Information, if any:	S LP IEG TEST DABSILLE IEC TEST DABSILLE IEC TEST DABSILLE		
PART B: SUPPLEMENTARY INFORMATIONS	SLLP IECTEST LABSILP IECTEST LABSIL	P TECTEST LABSTLP	
a) Reference to sampling procedure, wherever	er applicable: ASSULP 150 1531 LASSUL	IECTESN/ASSILP	
b) Supporting documents for the measureme	nts taken and results derived like	See attachment	
graphs, tables, sketches and/or photographs,	, as appropriate to test report, if	TEC TENO. 188 LLP	
any [To be attached]:	SLLP JECTEST LABSILP JECTEST LABSIL	ECTEST LABSILE	
c) Deviation from the test methods as prescri	bed in relevant ISS/ work	IEC TES NILBS LLP	
instructions,			

Tested by:	Approved by / Reviewed By / Authorized Signatory:	Issued By:	
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LP IECTEST LABS LLP IECTEST LABS	LLP JEC TEST LABS LLP JEC TEST LABS LLP	TEST LA Manish Jadon ABS LLP	
(Sr. Testing Engineer) Date: 31/12/2024	(Technical Manager) Date: 31/12/2024	(CEO) Date: 31/12/2024	

DELHI-39



Discipline Name: Electrical

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TEST REPORT

Report No: IEC/ N24121811

Dated: 31/12/2024 S LLP IEC TEST LABS L

ULR-TC891724000002060F

Group Name: Cells & Batteries

A	SI. N	No.	Requirement + Test	Measured Value/ observations	Verdict
A	BS LL	PJE	Capacity Test	Standard to be Referred for testing: IEC 60896-11:	Complied S LLP JECTEST LA
A			(C. No.8.1 P JEC TES	Test cell or batteries shall be prepared in accordance with Clause 13.	IEC TEST LABS LLP IEC TEST LA
A			IEC 61427-1)	LABSILP IECTEST LABSILP IECTEST LABSILP IECTEST LABSILF	The average LP LECTEST LA
A			TEST LABSILE (EG TES	In order to facilitate temperature of each pilot cell shall be	electrolyte S LLP IEC TEST LA
A			CTEST LABSILE IECTES	read immediately prior to discharge. The individual LABS LLE	temperature: 25.8°C.
a,			TEST LABSILE (ECTES)	readings shall be between 15°C and 30°C.	JECTESTIARS LIP JECTESTIA
Q.			TTESTIARS LIP LECTES	The average initial temperature V is calculated as the	IEC TESTI ADSILD IEC TESTI A
			TEST LADOLED HER TON	arithmetic mean of the individual values. The ambient	TEO TEOT LABOUR TEO TEOT LA
			D TEST LADS LLP TEL TES	temperature shall be maintained between 15°C and 30°C.	TEO TEST LABS LLP TEG TEST LA
			THEST LABSILP TECTES	Within 1h to 24h after the end of charging, the cells or the	After 24 hour rest period
			TEST LABS LLP IEC	battery shall be subjected to a discharge current.	battery subjected to
			TEST LABS LLP	This current shall be maintained constant within ST LABS LLE	discharging PS LLP TEC TEST LA
			TEST LABS	±1%throughout the whole discharge time. During TLABS LLE	ECTEST LABS LLP TECTEST LA
			TEST LAB	discharging manual adjustments may be necessary. In	IECTEST LABSILLP IECTEST LA
			TEST LAB	these circumstances deviations of the discharge current	IECTEST LABS LLP IECTEST LA
			TEST LABS L	shall be tolerated, provided they are within ±5% of the	FO TESTI ASSID FO TESTI A
			TEST LABS LLP JEC	specified value. The voltage between the terminal of the	IEG TEGT LABOLLE IEG (ED) LA
				cells or the battery shall either be recorded automatically	TECTEST LABSILIP TECTEST LA
			TEST LABS LLP (EC TES)	against time or taken by reading from a voltmeter. In the latter case, readings shall be made at least 25%.50% and	IEC TEST LABS LLP IEC TEST LA
			TEST LABS LLP (EO TES)	000/ (1)	The Discharging time
			TEST LABSILLE IECTES	$t = \frac{Crt}{h}$ (h)	observed on first cycle:
			TEST LABS LLP (EC TES)	LABSILP IECTEST LABSILP IECTEST LABSILITIECTEST LABSILIT	9.84 Hour
			TEST LABS LLP (EC TEST	And then at suitable time intervals, which permits the	IECTEST LABS LLP IECTEST LA
			TEST LABSILLP (EC TEST	detection of the transition to the final discharge voltage Uf.	JEO JEST LABS'LLP JEG TEST LA
			TEST LARSILE IFC TEST	n×Uf(V)	JECTEST LABSILE JECTESTIA
			TECTIADRID ISOTEON	Where n is the number of cell The discharge time shall be	Final valtage:
			TEST LABS LLY TEUTES	and the second s	6x1.8=10.8
			TEST LABSILP IECTES	voltage is reached or a cell or monobloc has reached a voltage of U = Uf-200 mV pc or, in the case of	TIEC TEST LABS LLP IEC TEST LA
			TEST LABS LLP (EC TES)	monoblocs with n cells	LECTEST LABSILLP LECTEST LA
			TEST LABSILLE JECTES	ABS LLP TEO TEST LABS LLP. TEO TEST LABS LLP. TEC TEST LABS LLP	IEC TEST LABSILP IEC TEST LA
			TEST LABS LUP (EC TEST	ABSILP IECTEST LASSILP IECU= Uf- $\sqrt{n \times 200 \text{mV}}$ EST LASSILP	IECTEST LABS LLP IECTEST LA
			TEST LABSILE TECTES	ABS LLP IECTEST LABS LLP IECTEST LABS LLP IECTEST LABS LLP	IEC TEST LABS LLP IEC TEST LA
			TEST LABSILE JECTES	The measured capacity C(Ah) at the initial average	RECTESTIANS HE DECTESTIA
			TESTIARS ID ISOTOR	temperature V is calculated as the product of the discharge	HECTECT LABOUR IEC TEXT
			TEST LABOUR TESTES	current (in amperes) and the discharge time in (hours) If	ISO TEST LABOLLY ISO IEST LA
			TEST DABSILP TECTES	the initial average temperature v is different from the	JEC TEST LABS LLP JEC TEST LA
			TEST LABS LLP TECTES	reference temperature (20°C or 25°C),	TECTEST LABSILIP TECTEST LA
			TEST LABSILLE TECTES	ABSILP IECTEST LABSILP IECTEST LABSILP IECTEST LABSILP	TECTEST LABSILIP TECTEST LA
			TEST LABSILE TECTES	LABSILP TECTEST LABSILP TECTEST LABSILP TECTEST LABSILP	IECTEST LABS LLP IECTEST LA





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LLP IECTEST LABSILP IECTEST LABSILP	Group Name: Cells & Batteries
	LLP IECTEST LABS LLP IECTEST LABS LLP LLP IECTESIEC 61427-1: 2013 ABS LLP LLP IECTEST LABS LLP IECTEST LABS LLP

SI. No	IEG	Requiremen	t + Test	Measured Value/ observations	Verdict
ABS LLP	IEG	TEST LABS LLP	IEC TEST	the measured capacity shall be corrected by means of the following equation to obtained the actual capacity Ca at the	IECTEST LABS LLP (E)
ABSILP I	IEG.			chosen reference temperature of 20°C or 25°C.	IECTEST LABS LLP IE
ABS LLP	IEC			LABS LLP TEST $Ca20^{\circ}C=C/[1+\lambda(v-20^{\circ}C)]$ Test Ah is LLP and the state of the	JECTEST LABSILE IE
ABS LLP	ΙE¢			LABS LLP IECTEST LABS LLP OR TEST LABS LLP IECTEST LABS LLP	@25°C= 201.30Ah
ABS LLP I	IEC			ABSILE IEC Ca25°C= $C/[1+\lambda(v-25^{\circ}C)]$ IEC TE Ah BSILE	On first sucle 09 404
ABS LLP	IEC			The coefficient Ashall be taken as 0.006 for discharge	On first cycle 98.4% capacity observed or
ABS LLP	IE¢			slower than the 3h rate and 0.01 with discharges with	rated capacity
ABS LLP ABS LLP				faster rates. The cell or battery shall be recharged in accordance with the	IEC TEST LABS LLP IE
ABS LLP	Ed			Clause 13.	100% percent rated capacity observed o
ABS LLP I				A new battery being repeatedly discharged and charged in accordance with 14.3 to 14.9 shall supply at least	3 rd Tcycle. BS LLP TE
ABSILP I	EC			Ca= 0.95 Crt at the first cycle Ca= 0.95 Crt at the fifth cycle.	FC TEST LABS LLP IE
ABS LLP I	Ed			LP JECTE BS LT TO LABSTIP TEST LABSTIP	IEC TEST LABS LIP IE

LaTable:1c TEST LABS LLP IEC TE	ST LABS LLP IECTEST LABS LLP IECTEST L	ABSILP BECTESTLABSILP BECTESTLABSILP BEC
LABSULP JECTEST ABSULP JECTE LABSULP JECTEST LABSULP JECTE LABSULP JECTEST LABSULP JECTE	Capacity declared by manufacturer	Discharge capacity observed in Ah
Capacity Test at 25°C	STLABSILE IEG TE 200Ah@C10 TEST	A SULP INCTEST 201.30Ah@C10 ABSULP IEC





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TEST REPORT

Report No: IEC/ N24121811

Dated: 31/12/2024

Discipline Name: Electrical

IEC 61427-1: 2013

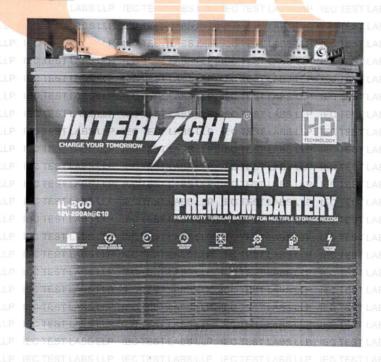
ULR-TC891724000002060F

Group Name: Cells & Batteries



Marking label of battery

Photograph of the sample:



Side View of battery

End of Test Report