

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

TEST REPORT

| | Discipline: Electrical | Group: Cells & Batteries | LET ILOTEOTENDO! | |
|---------|--|--|-------------------------|--|
| | Location of testing Performance of the | IEC Test Labs LLP | | |
| | Laboratory & its address: | Ground Floor, Plot No.N-47, Pkt.N | Sector-5 Bawana | |
| | S LLP IEC TEST LABS LLP IEC TEST LABS LLP IEC TEST LA | Industrial Area, DSIDC, Bawana Delhi-110039 | | |
| | Test Specification: | IEC 61427-1:2013 | | |
| | Report No.: IEC/N24121809 | Issue Date: 31/12/2024 | LLP TECTEST LABS I | |
| | ULR No.: ULR-TC891724000002058F | No. of Pages Page 1 of 4 | LEP TECTEST LABST | |
| | Name & Contact Address of Applicant & | INTERLIGHT TECHNOLOGIES P | RIVATE LIMITED | |
| | sManufacturer: BS LLP IEC TEST LABS LLP IEC TEST LA | KHASRA NUMBER 6295/1795/2, VAKIA RAKBA | | |
| | SLLP IECTEST LABSILP IECTEST LABSILP IECTEST LA | T LAB SULTANWIND, ABADI FREEDOM, NAGAR SA | | |
| | DADTA DADTICH ADC OF CAMPUS CURALITY | AVENUE, AMRITSAR, PUNJAB, 143001 TEST LAB | | |
| TEST LA | PART A. PARTICULARS OF SAMPLE SUBMITT | | LLP JEC TEST LABS | |
| | a) Sample Name: LEAD ACID TUBULAR BATTERY FO | | For Solar ST LABS | |
| | b) Sample Description | Application Application | | |
| | S (Rating/Class/Type, letc): ST LABS LLP LIEGTEST LA | 12V,100Ah@C10 | | |
| | S.C.) Model Number: IECTEST LABS LLP IECTEST LA | ABS ILP100 TEST LABS LLP TECTEST LABS | LLP IECTEST LABS | |
| | SId) Trade mark: LLP TECTEST LABS LLP TECTEST LA | ABSABS | LLP IECTEST LABS | |
| | S LLP IECTEST LABS LLP IECTEST LABS LLP IECTEST LA | EST LABS MIFRI ICUT® BS LLP (ECTES) | | |
| | S LLP IEC TEST LABS LLP IEC TEST LABS LLP IEC TEST LA | CHARGE YOUR TOMORROW | | |
| | S Le) Quantity of Sample: TEST LABS | 01 IECTEST LABS LLP IECTEST LABS | LEP TECTEST LABS | |
| | f) Condition of Sample when received: | OK / Not OK ABS LLP EC IES | TE LEGIE TE BS | |
| | S Lg) Document Number: | 7.8F-01 LV TEST | Barra de la c es | |
| | S Lh) Date of Recei <mark>pt of Sample: SLLP HEGTE</mark> | 18/12/2024 LEST ESTEST | | |
| | S Li) Job Order No.: LABS LLP TECTE | N24121809 LP EU TEST | | |
| | 」j) Date of Com <mark>mencement</mark> of Testing: □ | B 23/12/2024 LA EO TEST | ATRICE 1880 - | |
| | S k) Date of Completion of Testing: | E 28/12/2024 AB TEST TO A | | |
| | s I) Environmental Conditions: | BS 25°C ± 5°C LABS LLP LE TEST | un horas Ass | |
| | s m) Customer Reference Number: | BS LLP JEC TEST LABSILLP JEC TEST LABS | LLP TECTEST LABS | |
| | s n) Report refers to the Sample Received at: | B Permanent Facility P (ECTEST LABS) | LLP IECTEST LABS | |
| | S to) Decision Rule applicable: ABS LLP TECTEST LA | BEYES / No EST LABSILIP JEC TEST LABS | LLP IECTEST LABS | |
| | p) Code No. / Sr. No. / Batch No/Date of Manufacturer/Seal & IO's sign, if any | No/Date of estian 2024 of testians up leg testians up leg testians | | |
| | q) Any Other Information, if any: | DOLLE THE TEST LABBLER TEG TEST LABS | UP TEG TEST LABS | |
| | PART B: SUPPLEMENTARY INFORMATIONS | | LUP TECTESTIABS | |
| | a) Reference to sampling procedure, wherever | N/A | | |
| | b) Supporting documents for the measureme | See attachmer | | |
| | graphs, tables, sketches and/or photographs any [To be attached]: | LLP IEC TEST ABS No.1 LP IEC TEST LABS | | |
| | c) Deviation from the test methods as prescri | L.P IECTE NIL ABS | | |

| Tested by: | | Approved by / Reviewed By / Authorized Signatory: | Issued By: LP JEC TEST LABS LE |
|-------------------------|---|--|----------------------------------|
| CTEST LABS LLP IEC TEST | ABSILE ECTEST LABSIL | LP IECTEST LABS LLP IECTEST LABS LL | LP EC TESTLABS LP TESTLABS LI |
| CTEST LABSILP (Sr.:Tes | Parveen LECTEST LASS Leting Engineer) ST LASS L | Parvinder (Technical Manager) | Manish Jadon |
| CTEST LABS LLP IECDate | : 31/12/2024 TEST LABS L | . P 160 TE Date: 31/12/2024 T LABS L | P EG TEST Date: 31/12/2024 ABS L |

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TEST REPORT

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Dated: 31/12/2024

Discipline Name: Electrical Control of the Contro

| SI. No. | Requirement + | Test Measured Value/ observations TLABS LLP JEC TEST LABS L | VerdictsT LABS LLP IEC TEST |
|----------------------|---|---|--|
| LABS LLP | Capacity Test (C. No.8.1 IEC 61427-1) | Standard to be Referred for testing: IEC 60896-11: ABS LEGGEST TEST COLOR TEST LABS LEGGEST LABS LABS LABS LABS LABS LABS LABS LABS | Complied PLECTEST LABSILEP LECTEST The average |
| LABS LLP LABS LLP | IEC TEST LABS LLP | In order to facilitate temperature of each pilot cell shall be read immediately prior to discharge. The individual | electrolyte temperature: 25.8°C. |
| LABS LLP | IEC TEST LABS LLP I | readings shall be between 15°C and 30°C. The average initial temperature V is calculated as the ABS Learning arithmetic mean of the individual values. The ambient ABS Learning arithmetic mean of the individual values. | LP TECTEST LABSILLE TECTEST LP TECTEST LABSILLE TECTEST |
| LABS LLP LABS LLP | IECTEST LABS LLP I | temperature shall be maintained between 15°C and 30°C. Within 1h to 24h after the end of charging, the cells or the battery shall be subjected to a discharge current. | |
| LABS LLP LABS LLP | IEC TEST LABS LLP | This current shall be maintained constant within ±1%throughout the whole discharge time. During | battery subjected to discharging. |
| LABS LLP | IEC TEST LABS | discharging manual adjustments may be necessary. In statements these circumstances deviations of the discharge currents shall be tolerated, provided they are within ±5% of the | LP TECTEST LABSILP TECTEST LP TECTEST LABSILP TECTEST |
| LABS LLP | IEC TEST LABS LE | specified value. The voltage between the terminal of the cells or the battery shall either be recorded automatically | LP TECTEST LABSILE TECTEST LP TECTEST LABSILE TECTEST |
| LABS LLP | IEC TEST LABS LLP ! | against time or taken by reading from a voltmeter. In the latter case, readings shall be made at least 25%.50% and 80% of the calculated discharge time: | The Discharging time observed on first cycle: |
| LABS LLP LABS LLP | IEC TEST LABS LLP I | ECTES LABSILE IECTEST LABSILE IECTEST Let $\equiv \frac{Crt}{Irt}$. (h) ST LABSILE And then at suitable time intervals, which permits the ABSILE | 9.78 Hour LABS LLP TECTEST |
| LABS LLP LABS LLP | IEC TEST LABS LLP I | detection of the transition to the final discharge voltage Uf. $n\times Uf(V)$ Where n is the number of cell The discharge time shall be | LP TECTEST LABSTLP TECTEST |
| LABS LLP | IEC TEST LABS LLP I | noted. The tests shall be terminated when the average voltage is reached or a cell or monobloc has reached a | Final voltage: SLLP IEG TEST 6x1.8=10.8V |
| LABS LLP | HEC TEST LABSILLE I | voltage of U = Uf-200 mV pc or, in the case of EST LABS LEST CASS Monoblocs with n cells up the TEST LABS LEST CASS LEST LEST LEST LEST LEST LEST LEST LE | LP RECTEST LABSILE RECTEST LP RECTEST LABSILE RECTEST LE RECTEST LABSILE RECTEST |
| LABS LLP | IEC TEST LABS LLP I | ECTES LABSILE IECTEST LABSILE IEU=Uf- $\sqrt{n \times 200 mV}$ test Labsile iectest Lab | LP IECTEST LABSILP IECTEST |
| LABS LLP | IECTEST LABS LLP I | The measured capacity C(Ah) at the initial average temperature V is calculated as the product of the discharge current (in amperes) and the discharge time in (hours) If | P IECTEST LABS LLP IECTEST |
| LABS LLP | IECTEST LABS LLP I | the initial average temperature v is different from the LABS Let reference temperature (20°C or 25°C), SLLP JECTEST LABS L | LP IECTEST LABSILLP IECTEST LP IECTEST LABSILLP IECTEST |
| LABS LLP | IEC TEST LABS LLP I | ECTEST LABSILP IECTEST LABSILP IECTEST LABSILP IECTEST LABSIL COTEST LABSILP IECTEST LABSILP IECTEST LABSILP IECTEST LABSIL | LP TECTEST LABSILLE TECTEST |





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|--------------------------------------|---|--|
| Dated: 31/12/2024BS LLP IEC TEST L | ABS LLP IEG TESIEC 61427-1: 2013 LABS LLP | ULR-TC891724000002058F |
| Discipline Name: Electrical | ABS LLP IECTEST LABS LLP IECTEST LABS LLP | Group Name: Cells & Batteries |

| SI. No | . Requiremen | nt + Test | Measured Value/ observations LABS LLP JEC TEST LABS LLP | Verdict | TEST LAB |
|--------------------|-------------------|-----------|--|--|----------|
| ABS LLP ABS LLP | IEC 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 | IEC TEST LABS LLP IEC | TEST LAB |
| ABS LLP ABS LLP | IEC TEST LABS LLP | | chosen reference temperature of 20°C or 25°C. EST LABS LLP ABS LLP ABS LLP Ca20°C= $C/[1+\lambda(v-20^{\circ}C)]$ are stable LLP | IECTEST LABS LLP IEC | TEST LAB |
| | IEC TEST LABS LLP | | LABSILP JECTEST LABSILP JECTEST LABSILP JECTEST LABSILF | @25°C= 102.15Ah | TEST LAB |
| | IEC TEST LABS LLP | | Ca25°C= $C/[1+\lambda(v-25°C)]$ Ah | On first cycle 97.8% | TEST LAE |
| | IEC TEST LABS LLP | | The coefficient Ashall he taken as 0 006 for discharge | capacity observed of rated capacity | TEST LAI |
| | IEC TEST LABS LLP | | faster rates. The cell or battery shall be recharged in accordance with | IEO TEST LABS LLP IEC | TEST LA |
| | IEC TEST LABS LLB | | Clause 13. A new battery being repeatedly discharged and charged in | 100% percent rated capacity observed on 3 rd cycle. | TESTLA |
| | IEC TEST LABS | | accordance with 14.3 to 14.9 shall supply at least Ca= 0.95 Crt at the first cycle | IEC TEST LABSILIP IEC | TEST LAN |
| BS LLP | IEC TEST LAB | | Ca= Crt at the fifth cycle. | TECTEST LABSILE TEC | TEST LAB |

| Table:1 | | | | |
|-------------------------------|-----------------------------------|-----------------------------------|--|--|
| LABSILP IECTEST LABSILP IECTE | Capacity declared by manufacturer | Discharge capacity observed in Ah | | |
| Capacity Test at 25°C | 100Ah@C10 | 102.15Ah@C10 LABS LLP IBG | | |





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Dated: 31/12/2024

Discipline Name: Electrical

IEC 61427-1: 2013

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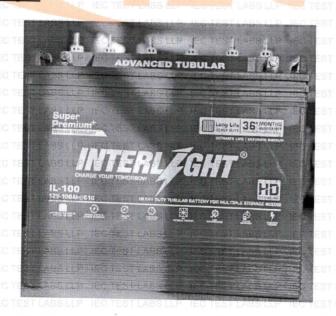
Group Name: Cells & Batteries

Attachment-1



Marking label of battery

Photograph of the sample:



Side View of battery

End of Test Report

