



**Estd:1980**

# **HI-POWER**

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## **Southern Batteries Pvt Ltd**

**HI-POWER**

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# Profile

Southern Batteries established in the year 1980, and specialized in the manufacture of low maintenance free lead acid tubular batteries and automotive batteries under the brand name HI-POWER.

The company is certified for ISO-9001:2008, ISO-14001:2004 and BS-OHSAS-18001:2007

The company keeping pace with the market potential has installed additional production capacity at Jigani unit II and is poised to record turnover, of Rs. 2500 million in the Financial year 2010-2011, and expected to double the turnover to Rs. 5000 millions by 2013-2014.

The company has set up state of the art production facilities for manufacture of SMF VRLA batteries for telecommunication and UPS application.

The company has ventured into retail market segment and has nation wide presence through a network of branch offices and channel partners.

The company has further massive expansion plan for which process has been already Initiated.

HI-POWER tubular batteries/cells are approved and certified by INDIAN RAILWAYS for various application like train lighting, air conditioning, cranking diesel locos, EMUS & signaling and telecommunication.

HI-POWER tubular batteries/cells are sourced by all major solar players in india for Solar photo voltaic applications.

HI-POWER tubular batteries are procured by almost all UPS and inverter manufacturers in the country.

HI-POWER tubular batteries are supplied to state electricity board, Nuclear power Corporations, Banks, Insurance sectors, state and central government organization and educational institutions nation wide.

HI-POWER tubular batteries pursues to be market leader in india in the field of tubular batteries, by virtue of it's excellent product quality and by rendering prompt customer service.



# Major Clients



NUMERIC

INDIAN RAILWAYS



Legendary Reliability®



# Applications



**MOBILE TOWERS**



**SOLAR**



**AUTOMOBILE**



**RAILWAYS**



**WINDMILL**



**UPS & INVERTER**



**TELE COMMUNICATION**

**HI-POWER**  
**BATTERIES**

# Product Range

## **Invader Series**

Tubular Batteries @ C10 Capacity

Range 12V 20Ah to 12V 240Ah

## **Impact Series**

Tubular Batteries @ C20 Capacity

Range 12V 80Ah to 12V 225Ah

## **Alight Series**

Flat Plate Batteries @ C20 Capacity

Range 12V 40Ah to 12V 190Ah

## **Solar Series**

Tubular Batteries @ C10 Capacity

Range 12V 20Ah to 12V 200Ah

## **2V Cells for Solar & Power Plants**

Tubular Batteries @ C10 Capacity

Range 2V 40Ah to 2V 1500Ah

## **VRLA Batteries**

6V 4.5Ah

12V 7.2Ah to 12V 200Ah

2V 100Ah to 2V 1500Ah



# UNIT - II & Head Office





## UNIT - I VRLA Plant



# PP Container Moulding Plant





# Oxide Mill & Battery Assembly Line



# Impact Series

Xtra power  
Xtra life

## Technical Specifications

| SL.NO | TYPE | C20 Capacity (AH) | Nominal Voltage (V) | Battery Weight (kg) |     | Overall dimensions(mm) $\pm 3$ mm |       |        | (Approx. Ltrs.) $\pm 5\%$ | Charge Rate (Amps) | Trickle Charge Rate (mA) |      |
|-------|------|-------------------|---------------------|---------------------|-----|-----------------------------------|-------|--------|---------------------------|--------------------|--------------------------|------|
|       |      |                   |                     | DRY                 | WET | Length                            | Width | Height |                           |                    | Min.                     | Max. |

### HI-POWER IMPACT SERIES OF TALL TUBULAR BATTERIES

|   |          |     |    |      |      |     |     |     |      |     |     |     |
|---|----------|-----|----|------|------|-----|-----|-----|------|-----|-----|-----|
| 1 | IMP 800  | 80  | 12 | 23.5 | 43.0 | 452 | 180 | 380 | 16.0 | 6.5 | 64  | 256 |
| 2 | IMP 1000 | 100 | 12 | 27.0 | 45.7 | 452 | 180 | 380 | 15.3 | 8.0 | 80  | 320 |
| 3 | IMP 1250 | 125 | 12 | 30.8 | 48.1 | 452 | 180 | 380 | 15.2 | 10  | 100 | 400 |
| 4 | IMP 1350 | 135 | 12 | 31.0 | 49.0 | 452 | 180 | 380 | 14.5 | 11  | 110 | 440 |
| 5 | IMP 1500 | 150 | 12 | 39.0 | 63.5 | 503 | 190 | 415 | 19.0 | 12  | 120 | 480 |
| 6 | IMP 1800 | 180 | 12 | 41.6 | 63.8 | 503 | 190 | 415 | 18.5 | 15  | 150 | 600 |
| 7 | IMP 2000 | 200 | 12 | 44.5 | 66.0 | 503 | 190 | 415 | 18.3 | 16  | 160 | 640 |
| 8 | IMP 2250 | 225 | 12 | 51.0 | 74.0 | 503 | 190 | 415 | 18.2 | 18  | 180 | 720 |

### HI-POWER IMPACT REGULAR SERIES OF TUBULAR BATTERIES

|   |           |     |    |      |      |     |     |     |      |     |     |     |
|---|-----------|-----|----|------|------|-----|-----|-----|------|-----|-----|-----|
| 1 | IMPG 1000 | 100 | 12 | 23.6 | 38.0 | 513 | 212 | 248 | 13.5 | 8.0 | 80  | 320 |
| 2 | IMPG 1200 | 120 | 12 | 28.9 | 44.3 | 513 | 212 | 248 | 13.0 | 10  | 100 | 400 |
| 3 | IMPG 1500 | 150 | 12 | 35.3 | 53.5 | 518 | 275 | 250 | 14.9 | 12  | 120 | 480 |

\*Note: Tolerance for weight is  $\pm 5\%$  and specifications are subject to change without prior notice.

## Product Features

- HI-POWER IMPACT SERIES OF TUBULAR BATTERIES are rated at C20 capacity.
- Batteries are designed to withstand frequent and long power cuts.
- Assembled in polypropylene containers with plate holding cradles.
- Extra thick tubular plates as per HI-POWER design.
- Thick tubular plate spines are of low antimony alloy and cast in HADI/SUVEMA machines at above 100 bar pressure for super fine grain structure and minimized grid corrosion at high temperatures.
- Negative plates are of low antimony alloy with lattice structure.
- Micro porous ceramic vent cum sealed float plugs to reduce topping up frequency.
- Resistance to corrosion and high ambient temperature.
- Abuse resistant.
- Low self discharge.
- Deep cycle design





# HI POWER **Xtra** Series

Xtra power

Xtra life

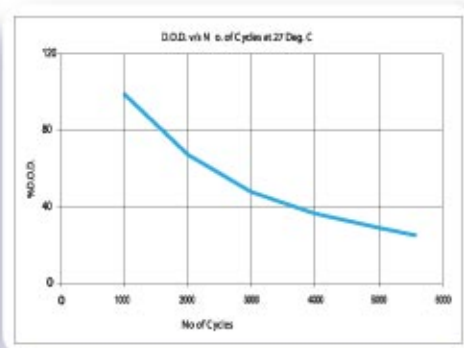
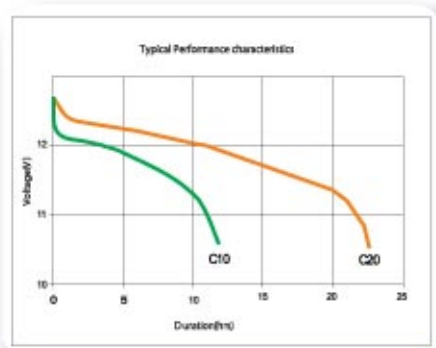
## Technical Specifications

| TYPE      | C20 Capacity (AH) | Nominal Voltage (V) | Battery Weight (kg) |     | Overall dimensions(mm) $\pm 3$ mm |       |        | (Approx. Ltrs.) $\pm 5\%$ | Charge Rate (Amps) | Trickle Charge Rate (mA) |      |
|-----------|-------------------|---------------------|---------------------|-----|-----------------------------------|-------|--------|---------------------------|--------------------|--------------------------|------|
|           |                   |                     | DRY                 | WET | Length                            | Width | Height |                           |                    | Min.                     | Max. |
| IMP 1500T | 150               | 12                  | 41                  | 65  | 503                               | 190   | 415    | 18.5                      | 12                 | 120                      | 480  |

\*Note: Tolerance for weight is  $\pm 5\%$  and specifications are subject to change without prior notice.

## Product Features

- **HI-POWER Xtra** SERIES OF TUBULAR BATTERIES are rated at C20 capacity.
- Batteries are designed to withstand frequent and long power cuts.
- Assembled in polypropylene containers with plate holding cradles.
- Extra thick tubular plates as per HI-POWER design.
- Thick tubular plate spines are of low antimony alloy and cast in HADI/SUVEMA machines at above 100 bar pressure for super fine grain structure and minimized grid corrosion at high temperatures.
- Negative plates are of low antimony alloy with lattice structure.
- Micro porous ceramic vent cum sealed float plugs to reduce topping up frequency
- Resistance to corrosion and high ambient temperature.
- Abuse resistant.
- Low self discharge.
- Deep cycle design



# Invader Series

Xtra power

Xtra life

## Technical Specifications

| SL.NO | TYPE | C10 Capacity (AH) | Nominal Voltage (V) | Battery Weight (kg) |     | Overall dimensions(mm) $\pm 3\text{mm}$ |       |        | (Approx. Ltrs.) $\pm 5\%$ | Charge Rate (Amps) | Trickle Charge Rate (mA) |      |
|-------|------|-------------------|---------------------|---------------------|-----|-----------------------------------------|-------|--------|---------------------------|--------------------|--------------------------|------|
|       |      |                   |                     | DRY                 | WET | Length                                  | Width | Height |                           |                    | Min.                     | Max. |

### HI-POWER X L INVADER SERIES OF TALL TUBULAR BATTERIES

|   |          |     |    |      |      |     |     |     |      |      |     |     |
|---|----------|-----|----|------|------|-----|-----|-----|------|------|-----|-----|
| 1 | XLTT 80  | 80  | 12 | 27.0 | 45.7 | 452 | 180 | 380 | 15.3 | 8    | 80  | 320 |
| 2 | XLTT 100 | 100 | 12 | 30.6 | 48.1 | 452 | 180 | 380 | 15.2 | 10   | 100 | 400 |
| 3 | XLTT 120 | 120 | 12 | 35.0 | 48.9 | 452 | 180 | 380 | 14.6 | 12   | 120 | 480 |
| 4 | XLTT 130 | 130 | 12 | 40.0 | 55.5 | 452 | 180 | 380 | 14.5 | 13   | 130 | 520 |
| 5 | XLTT 135 | 135 | 12 | 40.5 | 56.5 | 452 | 180 | 380 | 13.5 | 13.5 | 135 | 540 |
| 6 | XLTT 150 | 150 | 12 | 41.6 | 63.5 | 503 | 190 | 415 | 19.0 | 15   | 150 | 600 |
| 7 | XLTT 160 | 160 | 12 | 44.5 | 66.0 | 503 | 190 | 415 | 18.3 | 16   | 160 | 640 |
| 8 | XLTT 180 | 180 | 12 | 51.0 | 74.0 | 503 | 190 | 415 | 18.2 | 18   | 180 | 720 |
| 9 | XLTT 200 | 200 | 12 | 51.5 | 73.5 | 503 | 190 | 415 | 18.0 | 20   | 200 | 800 |

### HI-POWER REGULAR SERIES OF TUBULAR BATTERIES

|    |             |     |    |      |      |     |     |     |      |     |     |     |
|----|-------------|-----|----|------|------|-----|-----|-----|------|-----|-----|-----|
| 1  | 6 SB 20PP T | 20  | 12 | 9.0  | 15.0 | 260 | 173 | 235 | 5    | 2   | 20  | 80  |
| 2  | 6 SB 30PP T | 30  | 12 | 12.5 | 17.5 | 260 | 173 | 235 | 4.7  | 3   | 30  | 120 |
| 3  | 6 SB 40PP T | 40  | 12 | 13.0 | 18.5 | 260 | 173 | 235 | 4.5  | 4   | 40  | 160 |
| 4  | 6 SB 50PP T | 50  | 12 | 16.5 | 26.0 | 410 | 174 | 245 | 8.0  | 5   | 50  | 200 |
| 5  | 6 SB 60PP T | 60  | 12 | 19.0 | 29.7 | 410 | 174 | 245 | 7.8  | 6   | 60  | 240 |
| 6  | 6 SB 66PP T | 66  | 12 | 19.5 | 30.5 | 410 | 174 | 245 | 7.7  | 6.6 | 66  | 264 |
| 7  | 6 SB 75PP T | 75  | 12 | 21.5 | 30.5 | 410 | 174 | 245 | 7.5  | 7.5 | 75  | 300 |
| 8  | 6 SB 80PP T | 80  | 12 | 23.5 | 38.0 | 513 | 212 | 248 | 13.5 | 8   | 80  | 320 |
| 09 | 6 SB 100PPT | 100 | 12 | 28.0 | 44.0 | 513 | 212 | 248 | 13.0 | 10  | 100 | 400 |
| 10 | 6 SB 120PPT | 120 | 12 | 35.3 | 55.0 | 518 | 275 | 250 | 14.9 | 12  | 120 | 480 |
| 11 | 6 SB 130PPT | 130 | 12 | 36.0 | 57.0 | 518 | 275 | 250 | 14.5 | 13  | 130 | 520 |
| 12 | 6 SB 150PPT | 150 | 12 | 42.0 | 60.0 | 518 | 275 | 250 | 14.4 | 15  | 150 | 600 |

\*Note: Tolerance for weight is  $\pm 5\%$  and specifications are subject to change without prior notice.

## Product Features

HI-POWER INVADER SERIES OF TUBULAR BATTERIES are rated at C10 capacity. These batteries are assembled in PPCP containers with plate holding cradles with tubular positives and lattice grid pasted negatives made with special lead alloy for minimized gas generation during service. The Cells are provided with micro porous ceramic vent cum sealed float plugs which allow the liberated gases to escape allowing the water droplets to trap within cells, this reduces the topping up frequency. The level indicators provided on cells indicate the requirement of topping up during service. Compared to flat dimensional battery the frequency of topping up is improved to once a year by providing additional electrolyte height above plate top in tall version of batteries. This is elevated further with proper system charge controller voltage settings.





# Alight Series

Xtra power

Xtra life

## Technical Specifications

| SL.NO | TYPE | C20 Capacity (AH) | Nominal Voltage (V) | Battery Weight (kg) |     | Overall dimensions(mm) ±3mm |       |        | (Approx. Ltrs.) ±5% | Charge Rate (Amps) | Trickle Charge Rate (mA) |      |
|-------|------|-------------------|---------------------|---------------------|-----|-----------------------------|-------|--------|---------------------|--------------------|--------------------------|------|
|       |      |                   |                     | DRY                 | WET | Length                      | Width | Height |                     |                    | Min.                     | Max. |

### HI-POWER ALIGHT FLAT PLATE SERIES

|   |               |     |    |      |      |     |     |     |      |     |     |     |
|---|---------------|-----|----|------|------|-----|-----|-----|------|-----|-----|-----|
| 1 | ALIGHT IF 75  | 75  | 12 | 20.0 | 29.0 | 410 | 174 | 245 | 7.5  | 3.5 | 70  | 280 |
| 2 | ALIGHT IF 90  | 90  | 12 | 22.0 | 31.5 | 410 | 174 | 245 | 7.4  | 4.5 | 80  | 320 |
| 3 | ALIGHT IF 115 | 115 | 12 | 24.7 | 39.7 | 513 | 212 | 248 | 12.5 | 5.8 | 100 | 400 |
| 4 | ALIGHT IF 125 | 125 | 12 | 29.2 | 36.1 | 510 | 181 | 251 | 13.0 | 6.3 | 10  | 440 |
| 5 | ALIGHT IF 135 | 135 | 12 | 31.7 | 45.7 | 513 | 212 | 248 | 11.3 | 6.8 | 125 | 500 |
| 6 | ALIGHT IF 150 | 150 | 12 | 32.5 | 46.7 | 513 | 212 | 248 | 12.1 | 7.5 | 135 | 540 |
| 7 | ALIGHT IF 165 | 165 | 12 | 37.0 | 55.5 | 518 | 275 | 250 | 15.7 | 8.3 | 150 | 600 |
| 8 | ALIGHT IF 180 | 180 | 12 | 39.5 | 58.7 | 518 | 275 | 250 | 15.5 | 9.0 | 160 | 640 |
| 9 | ALIGHT IF 190 | 190 | 12 | 40.5 | 59.5 | 518 | 275 | 250 | 15.4 | 9.5 | 170 | 680 |

\*Note: Tolerance for weight is  $\pm 5\%$  and specifications are subject to change without prior notice.

## Product Features

HI-POWER ALIGHT IF SERIES OF FLAT PLATE BATTERIES are rated at C20 capacity. These batteries are designed to withstand frequent power cuts. These batteries are assembled in flat type polypropylene containers with plate holding cradles. The flat plate lattice grids are made with low antimony alloy and cast with gravity casting machines with fine grid structure and minimized grid corrosion at high temperatures. This construction makes the self discharge in battery to be of very less magnitude of the order less than 5% of rated capacity per month at 27Deg.C. The low antimony alloy reduces the water loss to very low limit. The cells are provided with micro porous ceramic vent cum sealed float plugs which allow the liberated gases to escape allowing the water droplets to trap within cells, this reduces the topping up frequency. The float in the plug indicates the requirement of topping up during service. The containers are abuse resistant.



# Solar Series

Xtra power  
Xtra life

## Technical Specifications

| SL.NO | TYPE | C10 Capacity (AH) | Nominal Voltage (V) | Battery Weight (kg) |     | Overall dimensions(mm) $\pm 3$ mm |       |        | (Approx. Ltrs.) $\pm 5\%$ | Constant Charge Rate(Amps) |        | Trickle Charge Rate (mA) |      |
|-------|------|-------------------|---------------------|---------------------|-----|-----------------------------------|-------|--------|---------------------------|----------------------------|--------|--------------------------|------|
|       |      |                   |                     | DRY                 | WET | Length                            | Width | Height |                           | Start                      | Finish | Min.                     | Max. |

### HI-POWER SOLAR SERIES OF TUBULAR BATTERIES

|    |            |      |   |       |       |     |     |     |      |      |     |      |      |
|----|------------|------|---|-------|-------|-----|-----|-----|------|------|-----|------|------|
| 1  | SB 40 ST   | 40   | 2 | 5.0   | 6.5   | 98  | 168 | 300 | 1.5  | 4.8  | 2.4 | 40   | 160  |
| 2  | SB 80 ST   | 80   | 2 | 8.1   | 11.1  | 142 | 172 | 330 | 2.6  | 9.6  | 4.8 | 80   | 320  |
| 3  | SB 120 ST  | 120  | 2 | 11.2  | 16.3  | 142 | 172 | 378 | 4.5  | 14.4 | 7.2 | 120  | 480  |
| 4  | SB 150 ST  | 150  | 2 | 13.0  | 17.3  | 142 | 172 | 378 | 3.5  | 18   | 9   | 150  | 600  |
| 5  | SB 200 ST  | 200  | 2 | 18.0  | 26.5  | 187 | 187 | 440 | 7.0  | 24   | 12  | 200  | 800  |
| 6  | SB 300 ST  | 300  | 2 | 24.5  | 39.0  | 315 | 185 | 445 | 11.7 | 36   | 18  | 300  | 1200 |
| 7  | SB 400 ST  | 400  | 2 | 28.5  | 43.0  | 315 | 185 | 445 | 11.8 | 48   | 24  | 400  | 1600 |
| 8  | SB 500 ST  | 500  | 2 | 35.5  | 49.5  | 315 | 185 | 445 | 11.6 | 60   | 30  | 500  | 2000 |
| 9  | SB 600 ST  | 600  | 2 | 44.3  | 62.0  | 375 | 188 | 480 | 14.5 | 72   | 36  | 600  | 2400 |
| 10 | SB 800 ST  | 800  | 2 | 52.5  | 70.2  | 398 | 189 | 497 | 14.5 | 96   | 48  | 800  | 3200 |
| 11 | SB 1000 ST | 1000 | 2 | 83.5  | 123.0 | 445 | 260 | 600 | 32.5 | 120  | 60  | 1000 | 4000 |
| 12 | SB 1200 ST | 1200 | 2 | 90.0  | 127.0 | 445 | 260 | 600 | 30.0 | 144  | 72  | 1200 | 4800 |
| 13 | SB 1500 ST | 1500 | 2 | 107.0 | 141.0 | 445 | 260 | 600 | 28.0 | 180  | 90  | 1500 | 6000 |

### HI-POWER SOLAR SERIES OF TUBULAR BATTERIES

|   |              |    |    |      |    |     |     |     |      |     |      |    |     |
|---|--------------|----|----|------|----|-----|-----|-----|------|-----|------|----|-----|
| 1 | 6 SB 40 PP T | 40 | 12 | 14   | 25 | 410 | 174 | 245 | 8.2  | 4.8 | 2.4  | 40 | 160 |
| 2 | 6 SB 60 PP T | 60 | 12 | 19.5 | 29 | 410 | 174 | 245 | 8.0  | 7.2 | 10.8 | 60 | 360 |
| 3 | 6 SB 75 PP T | 75 | 12 | 24.0 | 38 | 510 | 181 | 251 | 11.0 | 9.0 | 13.5 | 75 | 300 |
| 4 | 6 SB 75 PP T | 75 | 12 | 23.0 | 42 | 452 | 180 | 380 | 15.6 | 9.0 | 4.5  | 75 | 300 |

\*Note: Tolerance for weight is  $\pm 5\%$  and specifications are subject to change without prior notice.

## Product Features

- 2V cells designed to suit the system configuration requirement.
- Low antimonial alloy grids for achieving low topping up frequency of minimum once a year.
- Provided with transparent sealed level indicators to indicate the topping up requirement.
- Provided with micro porous ceramic vent plugs to minimize topping up frequency.



# VRLA Series

Xtra power

Xtra life

## Technical Specifications

| SL.NO | Battery ID        | Battery dimension |          |                | Rated Capacity @ 20 hr rate | Terminal Type | Battery weight |
|-------|-------------------|-------------------|----------|----------------|-----------------------------|---------------|----------------|
|       |                   | Length            | Width    | Overall Height |                             |               |                |
|       |                   | +/- 1 mm          | +/- 1 mm | +/-3 mm        |                             |               | kgs (approx.)  |
| 1     | Hi-POWER 12 - 7.5 | 152.00            | 66.00    | 101.00         | 7.5                         | F2 Tab        | 2.55           |
| 2     | Hi-POWER 12 - 18  | 181.00            | 77.50    | 165.50         | 18                          | M5 Flag       | 6.00           |
| 3     | Hi-POWER 12 - 24  | 166.00            | 125.00   | 175.00         | 24                          | M5 Flag       | 8.00           |
| 4     | Hi-POWER 12 - 40  | 197.00            | 165.00   | 171.00         | 40                          | M6 Flag       | 13.00          |
| 5     | Hi-POWER 12 - 65  | 350.00            | 165.00   | 175.00         | 65                          | M6 Flag       | 20.50          |
| 6     | Hi-POWER 12 - 75  | 260.00            | 168.00   | 223.00         | 75                          | M6 Flag       | 22.80          |
| 7     | Hi-POWER 12 - 100 | 330.00            | 173.00   | 240.00         | 100                         | M8 Flag       | 31.20          |
| 8     | Hi-POWER 12 - 120 | 408.00            | 173.00   | 238.00         | 120                         | M8 Flag       | 36.80          |

\*Note: Tolerance for weight is  $\pm 5\%$  and specifications are subject to change without prior notice.

## Product Features

- Maintenance Free & non-spill able sealed construction
- Use of high-purity calcium alloy maximizes the service life of HI-POWER VRLA Batteries
- Usage of High Grade -Pure Raw materials ensures low self discharge and long shelf life characteristics
- Self lubricated premium quality pressure regulating valve for safe operation
- Premium product manufactured by adopting advanced Statistical Process Control techniques
- Use of special epoxy sealing ensures no leakage in HI-POWER Batteries
- Excellent deep discharge recovery and charge acceptance characteristics
- Low Internal Resistance
- ABS (Acrylonitrile Butadiene Styrene) container and cover design
- Available in variety of ranges/capacities
- Higher Recombination Efficiency ensures maintenance free operation
- Manufactured in state- of- the art facility with all major quality certifications
- Flame Retardant (FR Grade) ABS container and cover design option also available on request
- Completely recyclable after the end of life
- Dedicated After -Sales Service Network and support pan India





Date: 15-06-2010

**To whom so ever it may concern**

This is to confirm that we have completed the Certification Audit for  
ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007 of

**Location :**

**Southern Batteries Private Limited,**  
No.328, Bommasandra Jigani Link Road, Industrial Area, Jigani, Anekal Taluk  
Bangalore 562106

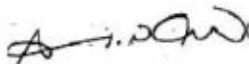
**Scope:**

**Design, Development, Production, Installation and Servicing of Tubular and Automotive Batteries**

We have recommended to our parent office to issue the certificate for  
**ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001:2007** and same is expected to  
arrive within 4 weeks

The organization may treat this as a confirmation of recommendation.

Warm regards,  
For TUV Rheinland (India) Pvt. Ltd.,



A.L.NARASIMHA RAO  
LEAD AUDITOR  
System Certification Group

Alpha Tower, Sigma Tech Pak, #7 , Whitefield Main Road, Varthur Kodi  
Bangalore-560 066

Ph: 080 3989 9888/080 3055 4319

[www.tuv.com](http://www.tuv.com)

# Certificate

Standard **ISO 9001:2008**

Certificate Registr. No. **01 100 106878**

TÜV Rheinland Cert GmbH certifies:

Certificate Holder: **Southern Batteries Pvt. Ltd. Unit II**

No. 328, Bommasandra Jigani Link Road,  
Industrial Area Jigani, Anekal Taluk,  
Bangalore – 562106, India

Scope: **Design, Development, Manufacturing, Installation and Servicing  
of Tubular and Automotive Lead Acid Batteries.**

An audit was performed, Report No. 106878. Proof has been  
furnished that the requirements according to ISO 9001:2008  
are fulfilled.

The due date for all future audits is 19-08 (dd.mm).

Validity: The certificate is valid from **2010-10-08 until 2013-10-07.**



TÜV Rheinland Cert GmbH  
Am Grauen Stein 51105 Köln



DGA-ZM-58-95-60

2010-10-08

# Certificate

Standard ISO 14001:2004

Certificate Registr. No. 01 104 106878

TÜV Rheinland Cert GmbH certifies:

Certificate Holder: Southern Batteries Private Limited  
No. 328, Bommasandra, Jigani Link Road,  
Industrial Area Jigani, Anekal Taluk, Bangalore 562 106, India

Scope: Design, Development, Production, Installation and  
Servicing of Tubular and Automotive Batteries

An audit was performed, Report No. 106878. Proof has been  
furnished that the requirements according to ISO 14001:2004  
are fulfilled.  
The due date for all future audits is 19-08 (dd.mm).

Validity: The certificate is valid from 2010-11-25 until 2013-10-07.

2010-11-25



TÜV Rheinland Cert GmbH  
Am Grauen Stein · 51105 Köln



DGA-ZM-58-95-60



CPRI

## TEST REPORT



**Central Power Research Institute**  
(A Govt. of India Society)  
P.B.No. 8066, Sadashivanagar Post Office,  
Sir C.V. Raman Road,  
Bangalore - 560 080 (INDIA)



### ELECTRICAL APPLIANCES TECHNOLOGY DIVISION CENTRAL POWER RESEARCH INSTITUTE

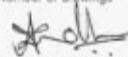
P B NO 8066, SADASHIVANAGAR P O  
SIR C.V. RAMAN ROAD, BANGALORE - 560 080, INDIA  
Telefax: +91 (0)80 - 23604572 Fax : + 91 (0) 80 - 23601213

CPRI

Sheet 1 of 4

### TEST REPORT

|                                                   |                                                                                                            |                  |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------|
| Test Report Number                                | 103EATDBT0850050-S0052                                                                                     | Dated : 24.03.09 |
| Name & Address of the Customer                    | M/s Southern Batteries Pvt. Ltd<br>Plot no.30, KIADB Industrial Area<br>Bommasandra<br>BANGALORE - 560 099 |                  |
| Name & Address of the Manufacturer                | M/s Southern Batteries Pvt. Ltd<br>Plot no.30, KIADB Industrial Area<br>Bommasandra<br>BANGALORE - 560 099 |                  |
| Particulars of sample tested                      | New                                                                                                        |                  |
| Condition of the sample on Receipt                | 12V 40Ah, 12T 40P - 6SB40PPT                                                                               |                  |
| Type                                              | Tubular Battery (Hi POWER)                                                                                 |                  |
| Designation                                       | 1,2,3                                                                                                      |                  |
| Serial Number                                     | Three                                                                                                      |                  |
| Number of Samples Tested                          | 04.12.08 To 15.01.09                                                                                       |                  |
| Date(s) of test (s)                               | EATDBT0850050-S0052                                                                                        |                  |
| CPRI Sample Code No                               |                                                                                                            |                  |
| Particulars of test Conducted                     |                                                                                                            |                  |
| Test in accordance with                           | As per IS: 13359-1992(Reaffirmed1997)                                                                      |                  |
| Standard/ Specification                           | Not Applicable                                                                                             |                  |
| Sampling Plan                                     | Nil                                                                                                        |                  |
| Customer's requirement                            | Nil                                                                                                        |                  |
| Deviations if any                                 | None                                                                                                       |                  |
| Names of the witnessing persons                   |                                                                                                            |                  |
| Customer's representatives                        | Nil                                                                                                        |                  |
| Other than Customer's representatives             | Nil                                                                                                        |                  |
| Test Subcontracted with address of the laboratory | None                                                                                                       |                  |
| Documents constituting this report (In words)     |                                                                                                            |                  |
| Number of sheets                                  | Four Only                                                                                                  |                  |
| Number of oscillograms                            | Nil                                                                                                        |                  |
| Number of graphs                                  | Nil                                                                                                        |                  |
| Number of photos                                  | Nil                                                                                                        |                  |
| Number of Test circuit Diagrams                   | Nil                                                                                                        |                  |
| Number of drawings                                | Nil                                                                                                        |                  |

  
(A.LOURDHUNADHAN)  
Test Engineer



AUTHORISED SIGNATORIES

  
(K. MANOHARA)  
Joint Director

# Credentials



## CHHATTISGARH STATE RENEWABLE ENERGY DEVELOPMENT AGENCY

(Deptt. of Energy, Govt. of Chhattisgarh)

CREDA, 2nd Floor, CSERC Building, Shanti Nagar, RAIPUR (C.G.)

Phone : 0771-4019227, 4019228 Fax : 0771 - 4268389

E-mail : credacg@credacg.org Website : www.credacg.com

Ref: 6723...../RG/CREDA/10-11

Date:- 24-12-10.

To,  
M/s. Southern Batteries Pvt Ltd,  
A-6, Mahavir Gaushala Parisar,  
K.K. Road,  
Raipur - 492001.

Sub: Regarding servicing of battery bank of Southern make.

Dear Sir,

It is stated that battery bank of 300 Ah 240 V of Southern Batteries Pvt. Ltd, is installed in the Solar Photovoltaic Power Plant (SPVPP) of 80 KWp at Chhattisgarh State Electricity Regulatory Commission (CSERC) building, Raipur. On our request, you were good enough to accept to offer us routine checkup of the battery bank installed at CSERC building, Raipur. Your Field Engineer, Mr. Das has performed the routine maintenance job of battery bank on 17-12-2010. We really appreciate your concern about maintenance of the battery bank installed with SPVPP and are satisfied with the maintenance job done by your Field Engineer.

We hope you will carry on this routine maintenance activity so as to keep the Southern make batteries healthy to perform for more than 10 years.

With Best Wishes,

  
(Rajeev Gyani)  
Executive Engineer

# Credentials

TATA BP SOLAR INDIA LIMITED  
Plot No. 4207 & 4209 Phase I, Electronic City, HSR Road, Bangalore 560 100, INDIA  
Tel: 91 80 41194230, 88601030 Fax: 91 80 41194231

Email: [tatabp@tatabp.com](mailto:tatabp@tatabp.com)  
[www.tatabpsolar.com](http://www.tatabpsolar.com)

23<sup>rd</sup> July 2010



M/s. Southern Batteries Private Limited,  
Plot No. 30, KIADB Industrial Area,  
Bommasandara, Bangalore,  
Karnataka, 562168,  
India

Dear Sir

Sub: Six Months consolidated report of on time delivery and quality rating  
Of materials for the period of Jan 2010 to Jun 2010

Your supplies during Jan 2010 to Jun 2010 has been analyzed with respect to timely delivery of TATA BP Solar and rated as follows:-

Quality Report of Jan - Jun 2010

On Time Delivery Jan - Jun 2010

| Delivered Qty | Accepted Qty | Rejected Qty | Accept% | Total No of Lots | No of lot On time | No. of lot Delayed | % of on time |
|---------------|--------------|--------------|---------|------------------|-------------------|--------------------|--------------|
| 54899         | 54899        | 0            | 100%    | 644              | 590               | 54                 | 91.61%       |

Your performance in Quality is Excellent and we wanted you to continue to sustain the same.

Your performance in on time delivery is good and we wanted you to achieve excellence in the same.

Your Endeavor should always be towards excellent performance i.e., 100% on time delivery and 100% quality.

Opportunities for Improvements:

- 1 Statements of Accounts to be given and reconciled with Tbp Accounts (Mr. Gopinath) on every quarterly basis.
- 2 Order acknowledgments to be given for All Po's
- 3 TBP Item Part Number needs to be mentioned in invoice during supplies.
- 4 Lead times to be reduced to meet customer requirements.
- 5 Process inspections to be strictly followed to improve and sustain the quality

Please revert with action plan for the same.

Regards,

S NATARAJ  
Sr Manager - Purchase

Regd Office: 78, Electronic City HSR Road, Bangalore 560 100, INDIA.

SunTechnics

A brand of the Genergy Group

SunTechnics Energy Systems Pvt. Ltd.  
865/1, 109th, Road, Indiranagar  
Bangalore - 560 026  
India  
Phone: +91-80-4188 0860  
Fax: +91-80-4128 1312  
E-Mail: [st.india@suntechnics.com](mailto:st.india@suntechnics.com)  
<http://www.suntechnics.com>

SunTechnics 865/1, 109th, Road, Indiranagar, Bangalore - 560 026 India

TO WHOM IT MAY CONCERN

M/s. Southern Batteries Pvt Ltd are one of our enlisted established suppliers of wide range of tubular batteries to Sun Technics Energy Systems Pvt.Ltd

This is to confirm that Sun Technics Energy Systems Pvt.Ltd have been drawing supplies of Low Maintenance Lead Acid Tubular batteries from M/s. Southern Batteries Pvt Ltd - Bangalore towards STI's regular project requirements for Solar Power Plants and related solar application.

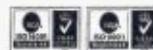
We are quite satisfied with the excellent all round proactive support being extended by M/s. Southern Batteries Pvt Ltd not only in regard to supplies but also with respect to back-up service support.

We wish to record here that the batteries so obtained have been duly installed at various customer sites and are performing absolutely satisfactorily.

We rate M/s. Southern Batteries as one of our prime dependable suppliers.

For Sun Technics Energy Systems Pvt.Ltd

*[Signature]*  
Authorized Signatory



Works: 99-0, KIBF Ancillary Industrial Estate, Hosanurpura, Bangalore - 560 348 India

# Credentials

FREED. 1491 60 2630 2752 08 Jan. 2010 17:16 P 1



भारत इलेक्ट्रॉनिक्स लिमिटेड  
(भारत शासन का उद्यम, खास कंपनी)  
कागदारी पोस्ट, बंगलूर - 560 013, भारत

**BHARAT ELECTRONICS LIMITED**  
(A Govt. of India Enterprise, Ministry of Defence)  
Jalahalli Post, BANGALORE - 560 013, India  
Phone : 98456-95580  
Fax : 080-28382752  
E-mail :  
Website :

TO WHOMSOEVER IT MAY CONCERN

No.1175/SPS/SB  
06<sup>th</sup> January 2010

We wish to inform that LMT batteries, Battery Bank & accessories supplied by M/s Southern Batteries, Bangalore being used in Solar street Lights, Solar home lights and Solar power plants supplied by us, are found to be satisfactory w.r.t Quality & service.

*[Signature]* 08/01/2010  
Manager (SPS)

PRASAD. N.R.  
BCE 206744, MANAGER  
PRODUCTION CONTROL  
SOLAR POWER SYSTEMS/MEL

पंजीकृत कार्यालय, नगरपालिका, अहमदाबाद, बंगलूर - 560 045, भारत  
Registered Office : Nagavara, Outer Ring Road, Bangalore - 560 045, India  
Phone : 25074990 Fax : 080-25018505, Web : www.bel-india.com



Reliance Corporate Park, Gate House, Thane-Belapur Road, Ghansoli, Navi Mumbai - 407701, India  
Phone: 91 22 2970 6000

25 March 2009

To Whom It May Concern:

We are pleased to state that, the Battery, accessories supplied by M/s. Southern Batteries Pvt Ltd meets our order specifications and are happy with the performance and service.

*[Signature]*

Aejazur Rahman  
Deputy Manager - Procurement  
RELIANCE INDUSTRIES LTD - Solar Energy  
Reliance Corporate Park,  
Block 'H', Building No.9, 1st Floor,  
Thane Belapur Road, Ghansoli,  
Navi Mumbai - 407701  
Direct : +91-22-44782607  
Board : +91-22-44770009  
Fax : +91-22-44713006  
E-mail : aejasur.rahman@ril.com



# Credentials



## TO WHOM IT MAY CONCERN

We are obtaining supplies of wide range Low Maintenance Lead Acid Tubular batteries covering our regular as well as project requirements of tubular batteries inclusive of both OE and replacement demands over the past several years exclusively from M/s Southern Batteries Pvt Ltd - Bangalore.

We are indeed quite satisfied with the excellent all round proactive support continue to receive from M/s Southern Batteries Pvt Ltd not only in regard to supplies but also with respect to back-up service support.

We wish to record here that the batteries so obtained have all been installed at various customer sites and are performing absolutely satisfactorily.

For Megatech Power Equipments Pvt Ltd

  
V.R.K. Nair  
Director



**megatech power equipments pvt. ltd.** Megatech House, S. No. 28/1/1, 36/3/1, Holkarwadi, Tal: Kaveri, Dist: Ponn - 412 308, Maharashtra  
Tel: 020 - 64794041 - 20 FCT: +91 9850813144 - 91 985082242 Fax: 21 - 20 20879486, 20852584  
E-mail: info@megatechpvt.com Web site: www.megatechpvt.com



Head Office & Factory : GP - 3, KSSDC Building, 5th cross, 1st Stage, Peenya Industrial Estate, Bangalore - 560 058, INDIA  
Phone : 91-080-25377310, 25379644, Telefax : 91-080-25377314 e-mail : poweroneps@poweroneps.com

## TO WHOM IT MAY CONCERN

We are obtaining supplies of wide range Low Maintenance Lead Acid Tubular batteries covering our regular as well as project requirements of tubular batteries inclusive of both OE and replacement demands over the past several years exclusively from M/s Southern Batteries Pvt Ltd - Bangalore.

We are indeed quite satisfied with the excellent all round proactive support continue to receive from M/s Southern Batteries Pvt. Ltd. not only in regard to supplies but also with respect to back-up service support.

We wish to record here that the batteries so obtained have all been installed at various customer sites and are performing absolutely satisfactorily.

For POWER ONE MICRO SYSTEMS (P) LTD.,

  
(M.R. Rajesh)  
Director



Place: Bangalore

Date: 17.02.2010

THE  
**ONE**  
ANSWER TO  
ALL YOUR  
POWER NEEDS

[www.poweroneps.com](http://www.poweroneps.com)



# Credentials



## TO WHOM IT MAY CONCERN

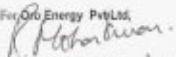
M/s. Southern Batteries Pvt Ltd are one of our enlisted established suppliers of wide range of tubular batteries to Orb Energy.

This is to confirm that Orb Energy have been drawing supplies of Low Maintenance Lead Acid Tubular batteries exclusively from M/s. Southern Batteries Pvt Ltd - Bangalore towards their regular project requirements for Solar Power Plants and related solar application.

We are quite satisfied with the excellent all round proactive support being extended by M/s.Southern Batteries Pvt Ltd not only in regard to supplies but also with respect to back-up service support.

We wish to record here that the batteries so obtained have been duly installed at various customer sites and are performing absolutely satisfactorily.

We rate M/s. Southern Batteries as one of our prime dependable suppliers.

For Orb Energy Pvt Ltd,  
  
Authorized Signatory 3/11/2018

ORB ENERGY PVT LTD NO.12, SRISANDRADA KAVULLI, SUNKADAKATTE, NAGAZI ROAD, BANGALORE 560017, INDIA  
TEL: +91 96 22261142 FAX: +91 90 22261141

## TECHSER POWER SOLUTIONS PVT.LTD

# 42, Ramachandrapura, Jalahalli Post,  
Bangalore - 560 013

☎: (080)-28384517; 28384854

## TO WHOMSOEVER IT MAY CONCERN

This is to inform that the Performance of the Batteries supplied by

M/s.Southern Batteries Pvt. Ltd. is found to be satisfactory.

  
for Techser Power Solutions Pvt Ltd.  
Bangalore.

# Regional Sales & Service Centres

**Southern Batteries Pvt.Ltd.**  
Apex colony chowk, Opp. GFC Park,  
Dosanj Road, Moga - 142001, Punjab  
Mob: 09316013222  
E-mail ID: sbpl\_punjab@southernbatteries.com

**Southern Batteries Pvt.Ltd.**  
D - 216, Sector - 10, Gautam budha nagar  
Noida - 201301, Uttar Pradesh  
Ph: 0120 - 3066001/2  
E-mail ID: sbpl\_noida@southernbatteries.com

**Southern Batteries Pvt.Ltd.**  
"upasana", No.108/E/3, Ground floor,  
In Road Opps to saluja  
sweets, Kidwalpuri, Patna-800001,  
Bihar  
Ph: 061 - 22522566  
E-mail ID:  
sbpl\_patna@southernbatteries.com

**Southern Batteries Pvt.Ltd.**  
No.161, Ground floor, Block-B,  
Lake town, Kolkata - 89,  
West Bengal  
Tele: 033 - 25210654  
E-mail ID:  
sbpl\_kolkata@southernbatteries.com

**Southern Batteries Pvt.Ltd.**  
Mahavir goushala complex,  
K.k. Road, Raipur, Chattishgarh  
Mob: 9977192290  
E-mail ID:  
sbpl\_raipur@southernbatteries.com

**Southern Batteries Pvt.Ltd.**  
Door no. 2 - 24 - 111, Plot no.31, IDA  
Uppal, Hyderabad - 500039  
Ph: 04032215330  
E-mail ID:  
sbpl\_hyderabad@southernbatteries.com

**Southern Batteries Pvt.Ltd.**  
Door No.E - 1, ground floor, Halls  
tower, halls road, Egmore,  
Chennai-600008  
E-mail ID:  
sbpl\_chennai@southernbatteries.com

**Southern Batteries Pvt.Ltd.**  
Door No. 06, Sree Vinayaka Complex  
58, Bangalore Road, Hosur - 635109  
Ph: 04344 - 246633  
E-mail ID:  
sbpl\_chennai@southernbatteries.com

**Southern Batteries Pvt.Ltd.**  
Paigude Ware House, At post Wagholi,  
Baif road, Taluk haveli, Pune - 412207  
Maharastra  
Ph: 020-27050626  
E-mail ID: sbpl\_pune@southernbatteries.com

**Southern Batteries Pvt.Ltd.**  
XXXIX/4004, Ravipuram  
road, Ernakulam, cochin - 16 Kerala  
Ph: 0484 - 2357407, 4029146  
E-mail ID:  
sbpl\_cochin@southernbatteries.com

**Hi-Power**



## **Southern Batteries Pvt Ltd**

### **Unit-I**

Plot No:30, KIADB Industrial Area  
Bommasandra  
Bangalore - 560099  
Tel: 91-080-27831341/342/27832971  
Fax: 91-080-27826633

### **Unit-II**

No:328, Bommasandra Jigani Link Road  
Jigani Industrial Area, Anekal Taluk,  
Bangalore - 562106  
Tel: 91-080-22010000-0099  
Fax: 91-080-27826633

**E-mail:** [enquiry@southernbatteries.com](mailto:enquiry@southernbatteries.com)

**Website:** [www.southernbatteries.com](http://www.southernbatteries.com)

### **Customer Care**

**Toll Free No: 1-800-425-7779**