

Southern
Batteries



Built to outperform



VRLA



VRLA Batteries



>Xtra power
>Xtra life

Southern Batteries, a company backed with over three decades of legacy in Lead Acid Battery Industry, with core competency in Manufacturing and pioneering to deliver quality products in Tubular, Flat plate, and Traction range consistently, under the brand name "**Hi-Power**".

The company certified with ISO 9001:2008, ISO 14001:2004 and BS OHSAS 18001: 2007, manufactures wide range of 2V, 12V, 10V, 8V and 6V batteries catering to Solar, UPS, Inverters, Telecommunications, Railways, Power plants and other industrial applications. Being an accredited supplier, we have an enviable list of prominent clients in Solar industry, UPS, Railways, Telecommunication and relishing a major share in clientele base, which is testimony to the quality commitment.

Now the company has forayed into VRLA segment, with a state of the art manufacturing facility, integrated with latest machineries and incorporating advanced technology and process to bring forth "**Hi-Power**" range of Valve regulated Lead Acid Batteries.

In our endeavour to deliver quality products, backed with committed after sales services , we have expanded our presence Pan India with network of Branch offices, Service centres and channel partners.

Features:

- Maintenance Free & non-spillable sealed construction.
- Advanced AGM & AGM GEL VRLA Technology ensures maintenance free operation.
- 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.
- Excellent deep discharge recovery and charge acceptance characteristics.
- International Size, easy to install & freedom to installation orientation.
- Eco- Friendly & completely recyclable after the end of life.
- Deep cycle Application.



VRLA

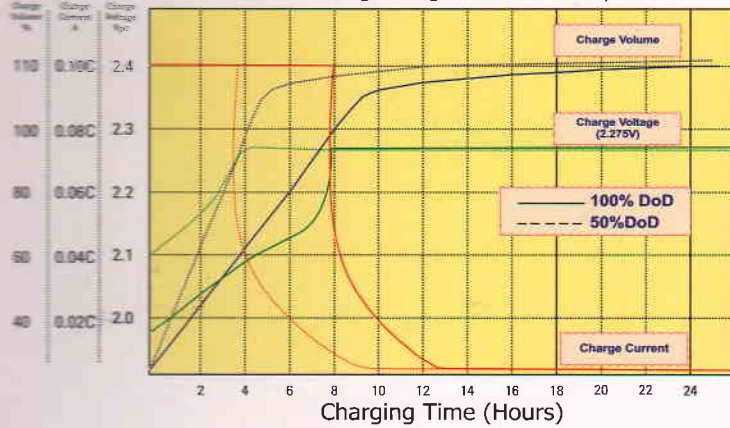
Specification Table

Note: Batteries are despatched from factory with minimum 95% state of Charge. Full capacity is achieved after a minimum five numbers of charge – discharge at full depth or 3 months of continuous float operation.

Battery Type	Nominal Voltage (V)	Rated Capacity(Ah) at 27deg C						Dimension in mm				Weight (Kg.) +/- 5%	Terminal Type	Internal Resistance (m-ohm)	Maximum Discharge Current 5 Sec (Amps)
		20hour 1.75V/cell	10hour 1.75V/cell	5hour 1.75V/cell	3hour 1.75V/cell	60 mins 1.75V/cell	30 mins 1.75V/cell	Length +/- 2	Width +/- 2	Overall Height +/- 3	Height up to lid +/- 3				
SB 7.2 -12	12	7.2	6.8	6.0	5.3	4.2	3.4	152	65	101	94	2.35	F2 Tab	23.0	108
SB 18 -12	12	18	17.0	14.5	13.0	11.0	8.5	182	78	167	167	5.50	M5 Flag	14.0	270
SB 26 -12	12	26	24.7	21.5	19.0	15.6	12.3	165	125	175	175	9.10	M5 Flag	8.5	390
SB 42 -12	12	42	39.0	35.0	31.0	24.5	19.0	197	167	170	170	13.00	M6 Threaded	7.5	630
SB 65 -12	12	65	61.8	54.0	49.0	39.0	30.0	350	166	175	175	20.50	M6 Threaded	6.0	975
SB 75 -12	12	75	71.3	62.5	55.0	46.5	35.0	260	168	223	223	23.00	M6 Threaded	5.5	1125
SB 100 -12	12	100	95.0	83.0	73.0	60.0	47.5	330	173	220	215	31.50	M8 Threaded	4.0	1500
SB 120 -12	12	120	115.0	100.0	87.0	70.0	57.0	406	172	238	210	37.00	M8 Threaded	3.5	1800

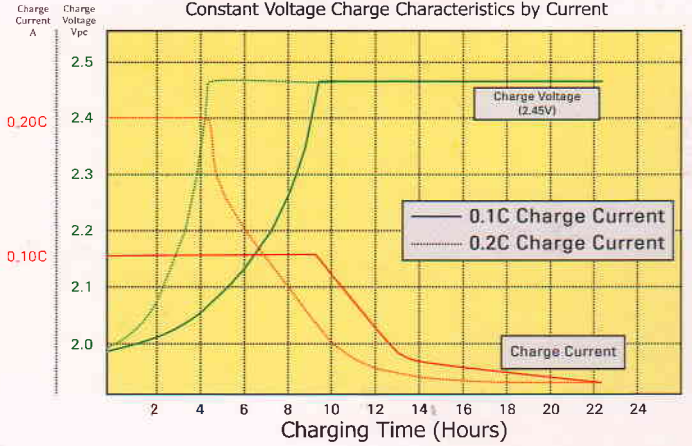
Recharge Characteristics

Constant Voltage Charge Characteristics by DoD

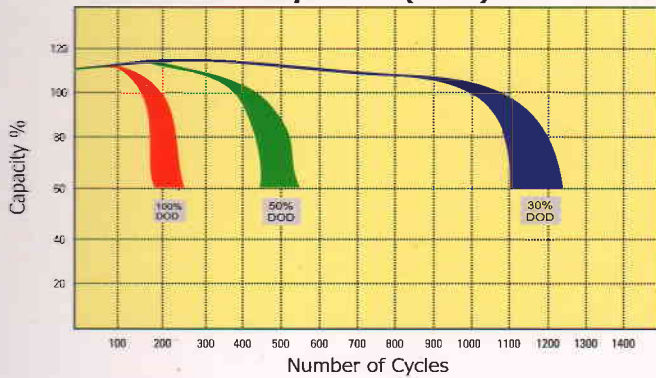


Recharge Characteristics

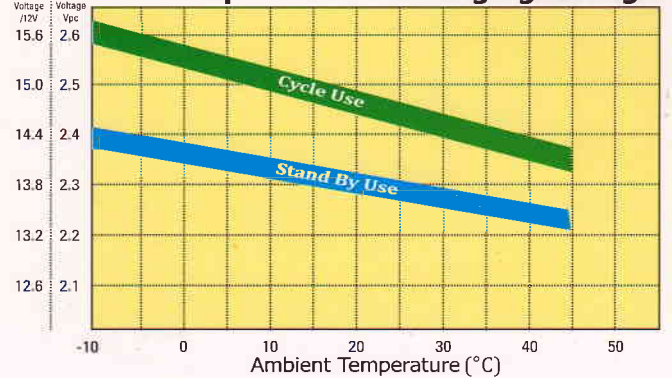
Constant Voltage Charge Characteristics by Current



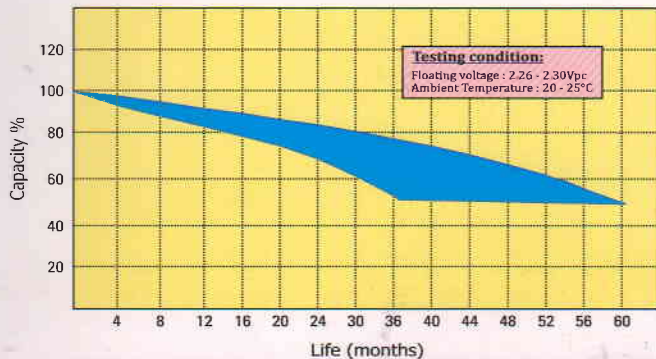
Cycle Life (25°C)



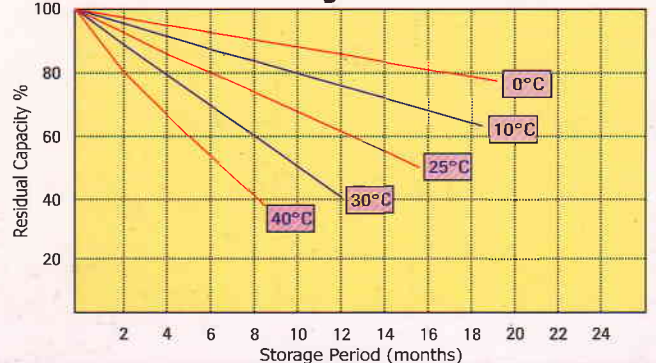
Temperature Vs Charging Voltage



Service Life



Self Discharge Characteristics



Standard Maintenance Recommendations

- Visual check every 3 months to note any physical abnormalities like bulge, crack and leakage, etc.
- Measure float voltage of individual units once in 3 months and record the data.
- Test discharge the battery bank at least once in 12 months to check battery health.
- Keep the battery top clean with the help of a dry cotton cloth periodically. Inspect the inter-unit connection terminals for any sulfation etc. The inter-unit connection are to be checked for tightness once a year.
- If battery bank is placed on steel racks / cabinets ensure an insulation between the battery base and the steel tray. This could be a coat of durable (acid-resistant) paint or any other insulating medium. Steel racks should preferably be well grounded.

Product Applications

- Uninterruptible Power Supply (UPS)
- Solar Lanterns
- Solar Powered Systems
- Emergency Lighting Systems
- Computers & Allied products
- Communication Equipment
- Power Packs
- Electrical Substations & Switch Gear Applications
- Consumer Electronics
- Electronic Test Equipments
- Medical Equipments
- Geo-physical Equipments

Statutory Notice : All batteries contain lead, which is harmful for human beings and environment. As per statutory requirements, the used battery must be returned to the authorised dealer, manufacturer or at the designated collection centres.

VRLA

Head Office

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