Solar Batteries

BINDAL
POWERTECH PVT. LTD.
(BATTERY DIVISION)

- UNEQUALLED
- RELIABLE
- AFFORDABLE

MADE IN INDIA

Se+ Selenium Plus

Solar Batteries

Technical Specification for Solar Batteries

General Technical Specification:

- Batteries are Lead Acid Tubular Positive Plate with Flooded Electrolyte.
- Container: PP Heat Sealed Container.
- Vent Plug: Float Type for each cell.
- Terminal Type: 'L' Shaped with fitted Nut Bolts and Petroleum Jelly

Technical Data:

Type of Battery	Capacity @ 10Hr. Rate At 27 Deg	Discharge Current @ 10Hr. Rate	Rate of Initial Charge for 80 Hrs @	Normal Rate of Charging		Dry Weight (Kg)	Filled Weight (Kg)	Volume of Acid (Ltr.)	Overall Dimensions (+/- 5mm)		
(12V Series)			(Amp)	UP TO 2.4V	Till End Amp	(+/- 5%)			L	W	H (+/- 10)
12V 20Ah	20Ah	2.0Ah	1.0	2.4	1.2	6.75	16.750	10	410	175	250
12V 40Ah	40Ah	4.0Ah	2.0	4.8	2.4	13.750	22.750	9.0	410	175	250
12V 60Ah	60Ah	6.0Ah	3.0	7.2	3.6	18.750	26.750	8.0	410	175	250
12V 75Ah	75Ah	7.5Ah	4.0	9.0	4.5	23.5	41.500	16.0	515	275	256
12V 100Ah	100Ah	10.0Ah	5.0	12.0	6.0	28.5	45.000	16.5	515	275	256
12V 120Ah	120Ah	12.0Ah	6.0	14.4	7.2	33.5	48.500	15.0	515	275	256
12V 150Ah	150Ah	15.0Ah	7.5	18.0	9.0	38.5	58.500	20.0	515	275	290

Initial Activation:

- Fill each Cell of battery carefully with find battery grade Sulphuric Acid (Conforming to IS 266:1977) of 1.21 +/- .005 Sp. Gravity corrected to 27 Deg. C.
- Allow battery to stand ideal for 10 to 12 Hrs.

Initial Charging:

- Check Electrolyte Level and adjust if necessary, to correct for absorption and resultant level drop.
- Charge the battery for 80 Hrs., using direct current at the recommended charging current as shown in technical specification, during charging temp. should not be allowed to rise above 50.

If it goes beyond said temp than either discontinue charging or decrease the rate of charging current. Continue charging till compilation of charge is indicated by:

a)Specific Gravity of Electrolyte in each cell remain constant for three consecutive hourly reading.

b)All cells are gasing freely.

c) At the end of charging the voltage of each cell will reach appox 2.6V and Sp Gravity to 1.240 +/- 0.005. Adjust Sp. Gravity to this value corrected

INSTALLATION :-

- Ensure battery is fully charged.
- Re-check that the battery is of correct size and capacity as recommended.
- Use wooden or plastic (non conductive) planks for placing the battery.
- Ensure the connecting cables to the battery are not frayed and are of appropriate quality and size.
- Ensure system is off.
- Connect battery/batteries to the system with correct polarity.
- Cable connections should be properly located and tightened and smeared with thin layer of petroleum jelly/Vaseline.
- Switch ON the system and ensure it is functioning properly.
- Switch OFF the mains for 5 min and then switch it ON. Ampere meter charging indicator shall show charge.

MAINTENANCE :-

- The Battery and surrounding area should be kept clean and dry.
- Top up at regular intervals to correct level.
- Use only distilled or de-ionised water for topping up.
- If frequent topping up is required than it is an indication that the battery is being over charged. The charging system of the UPS / Inverter must be rectified immediately.
- The connecting cables to the battery must be of appropriate quality and size.
- Constant Charging voltage should be less than 2.35 volts per cell. Do not overcharge.
- Temperature should not exceed 45 deg C while charging
- Keep Flames, Cigarettes etc away from the battery as the gases evolved are inflammable.
- Keep connections properly bolted and tight and smear with thin layer of Vaseline / Petroleum jelly.
- Protect battery from metallic objects coming in contact with terminals and connections.
- Maintain battery records.

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