

Guaranteed Technical Particulars

DOCREF: APE/ GTP-1/ 09-10/Rev:00

Battery Particulars

- Battery Type : Maintenance Free Valve Regulated Lead Acid (MF-VRLA)
- Battery Rating : 12V-1350 Ah to 1.75 ECV C₁₀ at 27° C
- Manufacturers Model No. : IP1037
- No of Cells : 06 Nos.
- Cell dimensions : 288.0 X 198.5 X 477 mm Approx.
- Single Cell weight : 77.8 Kg. Approx.
- Battery bank dimensions : 706 X 550 X 802 mm Approx.
- Battery bank weight : 530 Kg. Approx.

Charge Regime:

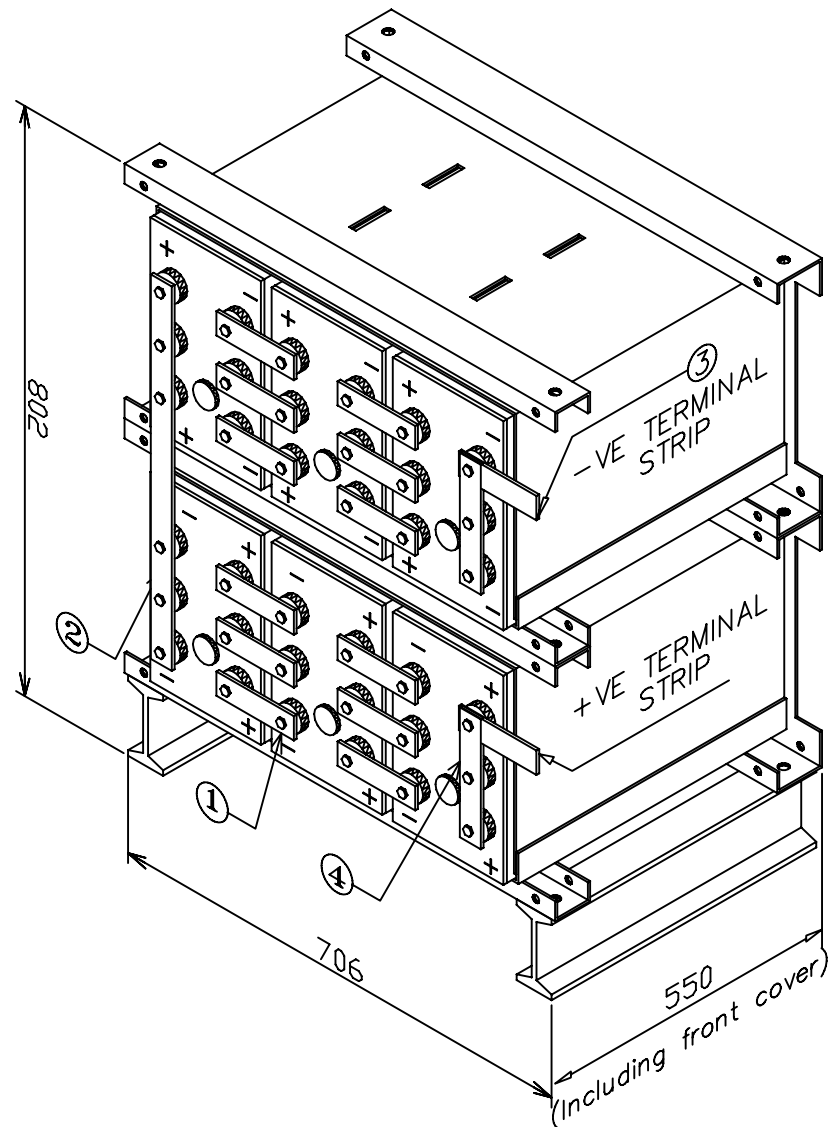
- Float charging voltage : 2.23- 2.25 Volts Per Cell @27° C
- Boost charging voltage : 2.30 Volts Per Cell @27° C
- Current limit : Minimum 135 Amps to Maximum 270 Amps.
- Recommended Voltage Compensation : For every 5° C rise in temperature reduce the float voltage by 0.015VPC and vice versa.

Product Details :

- AH efficiency : Above 90%
- WH efficiency : Above 80%
- Self Discharge/Week : <1% of rated capacity when stored at 20-30° C
- Max. allowable Ambient Temp. at which cell can safely operate : 55° C continuous and 70° C short time.
- Recommended Max period of storage : 6 Months from the date of manufacturing and the batteries shall be Stored in covered area at 27° C
- Material of container : Fire retardant Polypropylene co-polymer
- Type of separator : Highly absorbent Micro porous spun glass matrix. (AGM)
- Type of +ve & -ve plates : Flat pasted.
- Material of tray & color : Mild steel coated with acid resistance paint with RAL9002.
- Method of connection between cells : Bolted
- Voltage ripple allowable : < 2% of the RMS. Value
- Type of connectors : Lead coated Heavy duty copper strips.
- Time required for Boost charge from fully discharged condition at 27° C. : 9 Hrs for 90% State Of Charge (SOC)
(or)
24 Hrs for 100% State Of Charge

Applicable Standards

- Batteries generally conforms to
 - (i) IS15549:2005.
 - (ii) IEEE1188&1189
 - (iii) BS-6290, PART-IV.
 - (iv) IEC 60896-21&22:2004,PART-II
 - (v) TEC SPEC.No.:GR/BAT-01/03MAR2004,Amd-1
 - (vi) RDSO/PE/SPEC/D/TL/0009-2008 REV1
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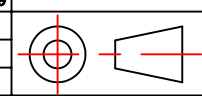
NOTES:

- a. Batteries are located inside the trays of MS HRCA sheet painted with RAL9002(New broken white)colour.Trays are mounted on I-beams.
 - b. All cell connectors are made of lead coated copper busbar.
 - c. No seperate foundation is required for installation of battery bank.
 - d. No special ventilation is required.Normal ventilation is sufficient.
 - e. Terminal plate assembly (TPA) comprises of lead coated terminal strip designed for load current.
 - f. Floor area required for battery bank is 706X550 sq mm
 - g. 0.5 to 1 mts aisle space on all sides should be provided to permit initial installation service and surveillance.
 - h. For any correspondence quote DRG.NO:
- *** FLOOR LOAD : 1365Kg/sq.m.
 *** Manufacturer's Model No : IP1037.

ITEM NO	DESCRIPTION	DIMENSIONS	QTY/CON	QTY/SYS
4	Inter post connector	180mm	1	02
3	End cell connector	135mm	1	02
2	Inter module connector	528mm	1	01
1	Inter cell connector(H)	110mm	1	12

CONNECTOR DETAILS

SYSTEM DETAILS	
Type of cell	2V-1350Ah
Total no.of cells	06
Volts per cell	2V
No.of modules	02
Total system weight	530Kgs
(Approx)	

UNLESS OTHERWISE SPECIFIED TOLERANCES ON		TITLE: 12V-1350Ah SYSTEM INSTALLATION&CONNECTION DIAGRAM		DRG. NO. 09 500 735 A	
LINEAR	ANGULAR				
X ±5.0 .X ± .XX ±	AS SPECIFIED IN THE DRAWING	UNLESS OTHERWISE SPECIFIED DIMENSIONS IN MILLIMETRES	DRN.	SIGN. Jahnavi	DATE 20.07.09
			CHD.	SCALE: N.T.S	
			RECHD.		
			APPD.		
SHEET SIZE A3 (297 x 420T)					