

GUARANTEED TECHNICAL PARTICULARS

S. No	Description	Battery Details for SPV application
1.	Battery rating	24V, 850 Ah at C10 to 1.8 ECV at 27°C (1352AH@C120 to 1.8 ECV at 27°C)
2.	Type of Battery	Tubular gel Maintenance Free Valve Regulated Lead Acid Battery
3.	Model offered	2 TGI 850
4.	Cell capacity	850 Ah at 10 hour rate to 1.8 ECV at 27°C
5.	No of cells	12 cells
6.	Battery dimensions (L x W x H) mm	As per Schematics
7.	Battery Weight (approx.)	As per Schematics
8.	AH Efficiency	> 95%
9.	WH Efficiency	> 85%
10.	Self discharge	< 0.5% per week at 27°C
11.	Design float life	20 years design life at 27°C
12.	Design cycle life	1800 Cycles at 80% depth of discharge at 27°C 5200 Cycles at 20% depth of discharge at 27°C
13.	Charge controller settings	<p>On/ off Type: Over voltage disconnect: 2.370±0.005V/cell at 27°C Array Reconnection voltage: 2.250±0.005V/cell at 27°C Low voltage disconnect: 1.850±0.005V/cell at 27°C Load reconnect voltage: 2.080±0.005V/cell at 27°C</p> <p>Pulse width modulation(CV CONTROLLER) Type: Regulation voltage: 2.350±0.005V/cell at 27°C Low voltage disconnect: 1.850±0.005V/cell at 27°C Load reconnection voltage: 2.080±0.005V/cell at 27°C</p>
14.	Recommended max. period of storage	6 months at 27°C
15.	Operating temperature range	-20°C to +55°C
16.	Grid Alloy	Lead Calcium tin alloy with special additives
17.	Container & Lid Material	Poly propylene co-polymer
18.	Sealing Method	Heat sealing

19.	Safety vent	Self resealing, Pressure Regulating Valve with Flame arrestor
20.	Ventilation	Normal ventilation is required
21.	Positive Plate type	Tubular
22.	Separator	Micro porous synthetic separator
23.	Electrolyte	Gel type
24.	Terminals & ICC	Lead plated brass & Lead plated copper respectively
25.	Cell enclosure	Steel enclosures with Acid Resistant Epoxy Powder coating with Moon light Grey colour
26.	Mounting	Mounting frame with acid resistant coating