

6GFMJ-85

12V85Ah(10hr)

Complying standards:

IEC60896-21/22: 2004
DIN43539-T5
IEC61427-2005
YD/T1360-2005
GB/T 22473-2008



ABT-GFMJ introduce VRLA battery Gel technology, gel electrolyte design, Thick positive Flat plate technology and patent gel electrolyte compounding and filling technique guarantee battery long service life and super high reliability. They are widely used in telecommunication, power supply system, energy storage, UPS and EPS system, etc.

Mechanical Characteristics

	SI Unit	EN Unit
Length	414mm	16.30inch
Width	174mm	6.85inch
Height	218mm	8.58inch
Total Height	228mm	8.98inch
Approx.Weight	37.0kg	81.6lbs

Type of material for container and lids:

ABS Standard (FV0 Optional)

Product Characteristics

- 12 years life expectancy in float service at 68°F (20°C), 25% DOD (end voltage 1.8V/cell) cycle 2950 times.
- Due our intensive research on corrosion effect, we improve the technology of grid alloy, lead plaste formula additive ,high temperature high humidity solidify and so on, increasing the content of 4PbO·PbSO4·H2O. , improving the binding ability of active substance and grid, reventing early capacity loss due to barrier layer between active substance and grid.
- Fumed Silica used for Gel electrolyte ensuring even distribution inside battery and no acid stratification.
- Extra electrolyte acid filling system which ensure quantity of gel electrolyte is correctly filled over the plates and separators.
- PVC-SiO2 micro-porous separator ensures low internal resistance, high porosity, intense absorption of gel electrolyte and long cyclic life.
- Low self-discharge rate, average month rate ≤2%;
- Gel electrolyte with high purity; storage at ambient temperature 20°C for two years, the rest capacity remains more than 50%.
- Thicken ABS container and cover with high-impact resistant, vibration resistant, prevents leakage and container deformation.

Performance Characteristics

- Rated voltage: 12V (6 cells)
- Rated capacity at 68°F (20°C)
 - 10h rate (8.5A, 10.8V) 85Ah
 - 5h rate (14.5A, 10.8V) 75.5Ah
 - 1h rate (46.8A, 10.8V) 46.8Ah
- Internal resistance:
 - 5.85mΩ when fully charged at 68°F (20°C)
- Average self discharge rate:
 - ≤2% per month 68°F (20°C)
- Maximum discharge current:
 - 1012A(3s) at 68°F (20°C)
- Working temperature range:
 - Discharge: -20~55°C
 - Charge: -10~55°C
 - Storage: -20~55°C
- Charging method:
 - with constant voltage at 68°F (20°C)
 - Maximum charge current: 17A
 - Temperature compensation: -21mV/°C/piece
 - Cycle use: 13.98-14.22V/ piece
 - Standby use: 13.38-13.62V/ piece



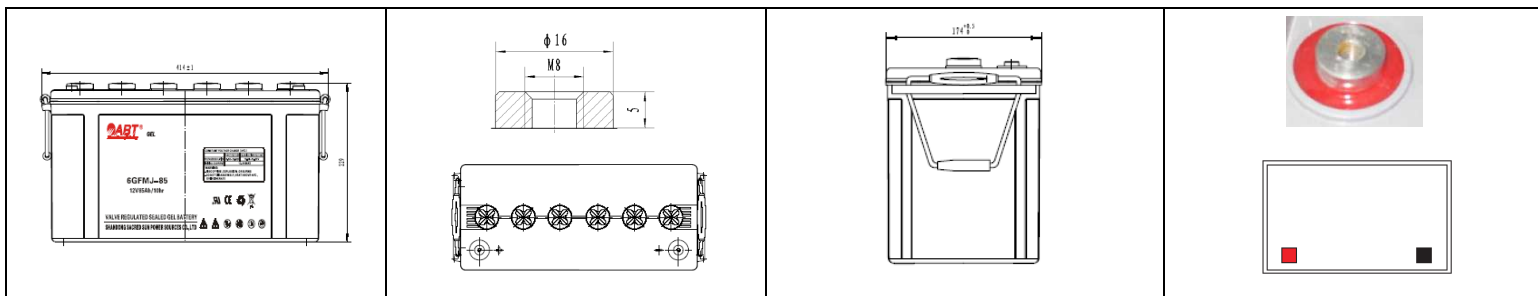
Advanced Battery Technology

GFMJ Series

6GFMJ-85

12V85Ah(10hr)

Dimensions/Terminal



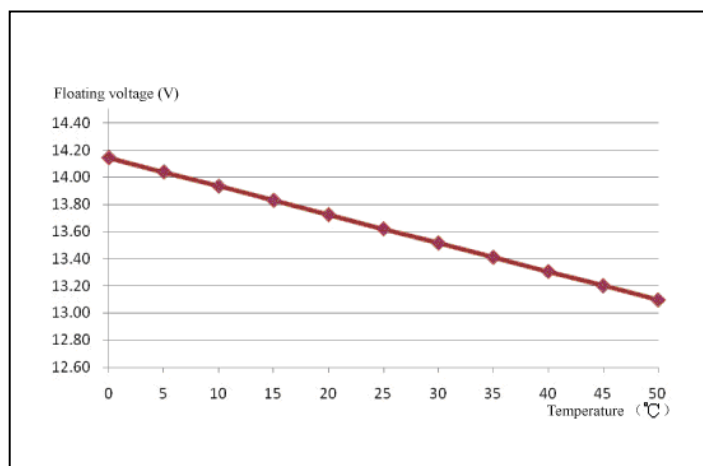
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	5h	10h	20h	24h	48h	100h	120h	240h
1.60	237.4	173.1	134.8	113.1	82.6	64.8	49.1	38.2	29.2	22.3	14.9	8.5	4.59	3.93	2.07	1.06	0.93	0.49
1.65	225.3	166.9	132.2	111.3	81.8	63.5	48.2	37.7	29.2	22.3	14.9	8.5	4.59	3.93	2.07	1.06	0.93	0.49
1.70	212.2	158.3	129.5	108.7	80.8	61.5	48.2	37.1	29.2	22.3	14.9	8.5	4.59	3.93	2.07	1.06	0.93	0.49
1.75	196.5	147.0	125.2	104.4	78.3	59.8	47.3	36.6	29.2	22.3	14.9	8.5	4.59	3.93	2.07	1.06	0.93	0.49
1.80	167.8	133.9	117.4	97.4	74.0	57.6	46.8	35.5	28.4	21.3	14.5	8.5	4.42	3.74	2.07	1.06	0.93	0.49

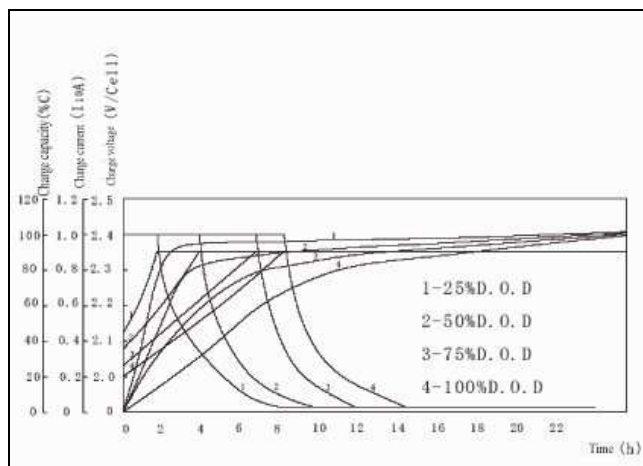
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	5h	10h	20h	24h	48h	100h	120h	240h
1.60	419.1	313.9	246.4	206.8	155.0	116.5	90.8	70.6	55.3	40.0	27.4	16.2	8.7	7.78	4.13	2.13	1.87	0.99
1.65	389.8	302.3	241.0	204.3	153.6	115.5	89.2	70.0	55.3	40.0	27.4	16.0	8.7	7.78	4.13	2.13	1.87	0.99
1.70	356.4	285.7	232.9	200.2	151.5	113.9	89.2	69.4	55.3	40.0	27.4	16.0	8.7	7.78	4.13	2.13	1.87	0.99
1.75	328.5	264.8	225.7	192.6	147.6	111.3	87.6	68.7	55.3	40.0	27.4	15.8	8.7	7.78	4.13	2.13	1.87	0.99
1.80	305.7	241.4	215.5	180.5	140.6	107.3	86.4	67.1	53.9	39.0	25.9	15.4	8.4	7.48	4.13	2.13	1.87	0.99

Floating Charge Voltage Vs Temperature



Cycle charge characteristic curve (at 20°C/68 °F)



Contact information

Shandong Sacred Sun Power Sources Co.,Ltd
 Add.1,Shengyang Road,Qufu 273100 Shandong,China
 Tel:+86-537-4438666 extn 6028 Fax: +86-537-4411936
 Web: <http://www.abtbatt.com> Email: sales@abtbatt.com

ABT VRLA Battery: Available power range from 7Ah to 3000Ah.

Copy right SACRED SUN,

all rights reserved.

(Edition: May,2011)