

GENERAL SERIES BATTERY

GFM600/2Volt 600Ah

2V series is a general purpose battery with 20 years design life in float service. With heavy duty grids, thicker plates, special additives and updated AGM valve regulated technology, the series battery provides consistent performance and long service life. The new grid design effectively reduces the internal resistance, which provides higher specific energy density and excellent high rate discharge characteristics.

APPLICATION

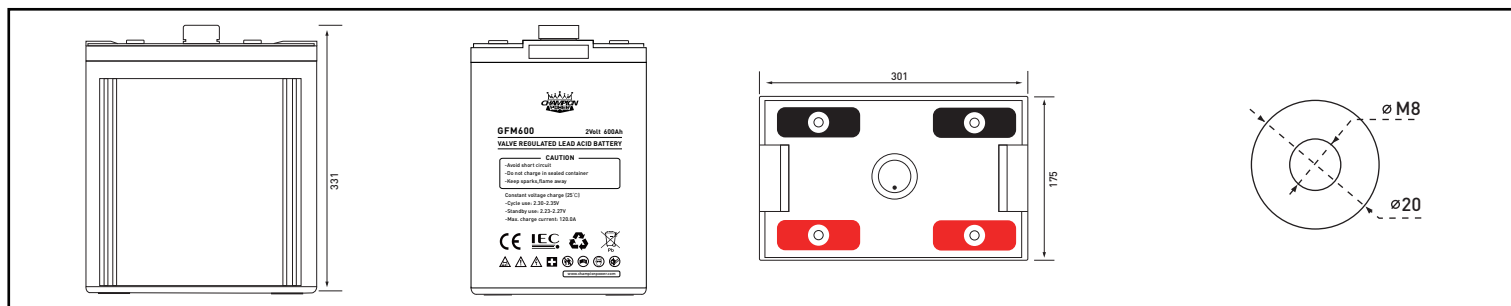
- ☆ Emergency Power System
- ☆ Power tools
- ☆ Communication equipment
- ☆ Alarm system
- ☆ Telecommunication systems
- ☆ Marine equipment
- ☆ Uninterruptible power supplies
- ☆ Medical equipment
- ☆ Electric toy car and wheelchairs, etc
- ☆ Fire and Security System

SPECIFICATION

Battery Model	Nominal Voltage	2V		
	Rated capacity (10Hour rate)	600Ah		
Dimension	Length	Width	Height	Total Height
	301mm	175mm	331mm	366mm
Approx Weight	34.50Kg			
Internal Resistance	Full charged at 25°C(77°F): Approx 0.60mΩ			
Max.discharge current	3000A(5s)			
Floating design life @ 25°C (77°F)	20 years			
Capacity @ 25°C (77°F)	C ₂₀ (32.10A/1.85V)	C ₂₄ (27.50A/1.85V)	C ₄₈ (15.00A/1.85V)	C ₇₂ (10.42A/1.85V)
	642Ah	660Ah	720Ah	750Ah
Capacity affected by Temp(10 HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C(5°F)
	102%	100%	85%	65%
Self Discharge @ 25°C (77°F)	After 3 months storage	After 6 months storage	After 12 months storage	
	91%	82%	64%	
Charge method @ 25°C (77°F)	Cycle Use	2.30-2.35V (Max. charge current: 120.0A)		
	Float Use	2.23-2.27V		

OUTER DIMENSION (mm)

TERMINAL TYPE (mm)

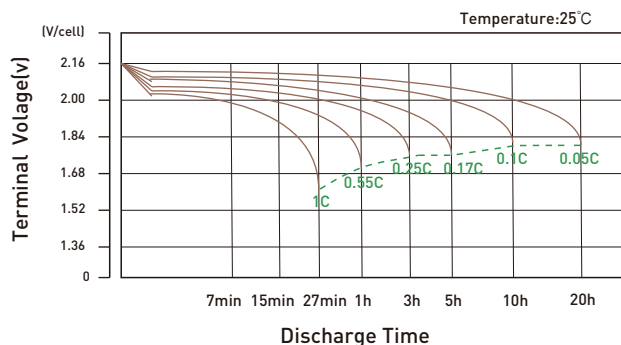


CONSTANT CURRENT(AMP) AND CONSTANT POWER(WATT) DISCHARGE TABLE AT 25°C (77°F)

F.V / TIME		5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h
1.60V	A	1860.00	1410.00	1050.00	690.00	360.00	210.00	156.00	124.00	105.25	69.50	66.00
	W	3286.00	2495.70	1872.50	1242.00	654.00	381.50	286.00	227.33	192.96	128.57	122.10
1.70V	A	1620.00	1325.00	965.00	655.00	372.00	201.50	153.00	120.00	103.25	68.40	63.00
	W	2943.00	2451.25	1793.29	1228.13	697.50	379.49	288.15	227.00	195.31	129.39	119.18
1.75V	A	1836.25	1266.00	900.00	635.00	360.00	197.50	150.00	114.00	102.00	67.50	61.80
	W	3366.46	2373.75	1695.00	1206.50	684.00	376.90	286.25	218.50	195.50	129.38	118.45
1.80V	A	1672.00	1210.00	840.00	606.00	348.00	192.50	147.00	112.00	97.50	65.75	60.00
	W	3065.33	2299.00	1603.00	1166.55	669.90	370.56	284.20	217.47	189.31	127.66	116.50
1.85V	A	1446.00	1140.00	780.00	564.00	330.00	187.50	141.00	110.00	93.25	64.00	58.50
	W	2723.30	2194.50	1508.00	1099.80	643.50	365.63	276.13	216.33	183.39	125.87	115.05

GFM600/2Volt 600Ah

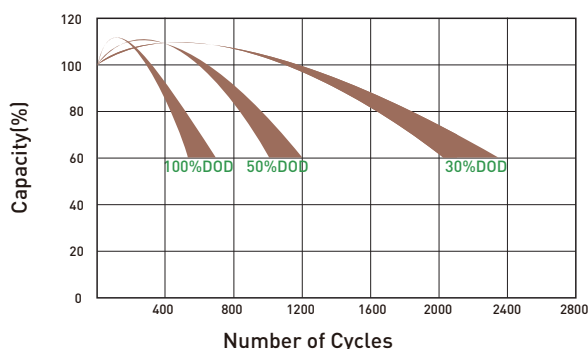
Discharge characteristic Curve



Charge Characteristic Curve For Standby Use



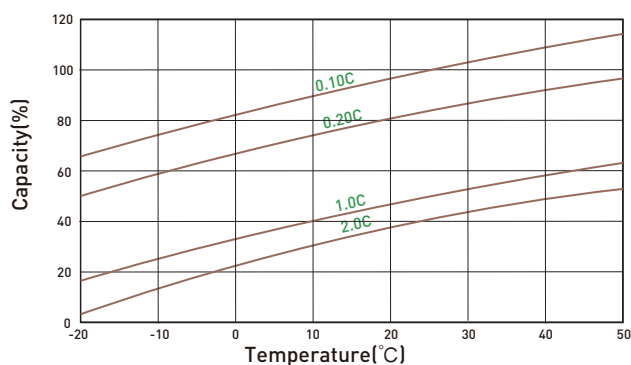
Cycle service life in relation to depth of discharge



Relationship Between Charging Voltage And Temperature



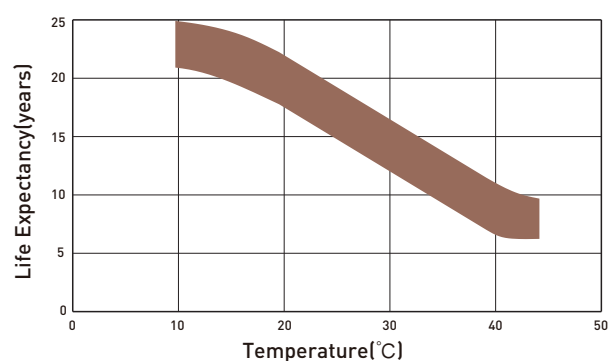
Temperature Effects On Capacity



Storage Characteristics



Effect Of emperature On Long Term Life



Charge Characteristic Curve For Standby Use

