

## Deep Cycle Gel Battery

## 6GFM300G/12Volt 300Ah

Deep cycle Series Battery is specially designed for frequent cycling applications. The series battery uses high-tin alloy positive plate, active paste materials and stronger electrolyte, which gives 30% longer life than normal battery. Suitable for solar and wind energy systems.



### General Features

- Heavy Duty Grid
- Mechanized assembly
- Non-spillable construction
- High Reliability and Stability
- Sealed and Maintenance-free
- Long Life and low self-discharge design

### Construction

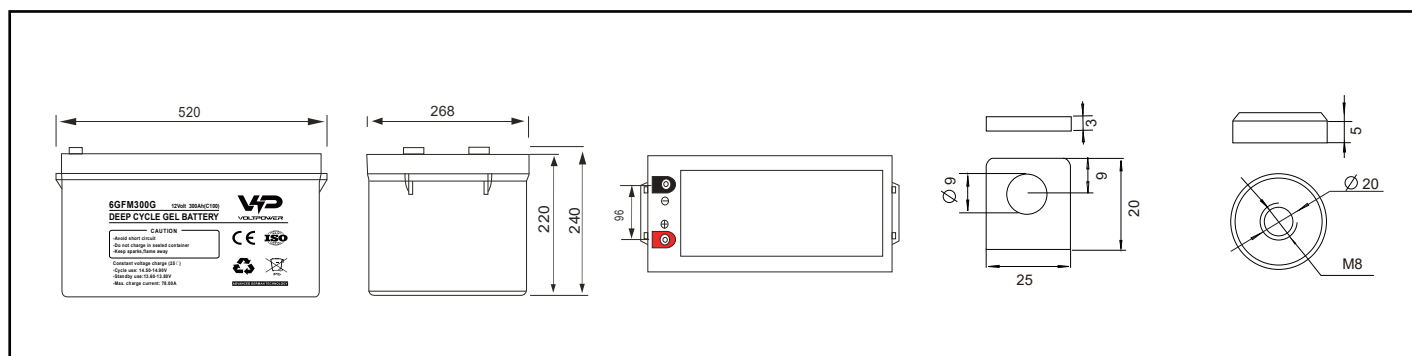
- Negative.....Lead
- Terminal.....Copper
- Positive.....Lead dioxide
- Electrolyte.....Sulfuric acid
- Separator.....Fiber glass
- Safety Valve.....EPDR
- Container.....ABS(UL94-HB) / (UL94-V0)

### Specification

Battery Model	Nominal Voltage	12V			
	Rated capacity (100Hour rate)	300Ah			
	Cells Per battery	6			
Dimension	Length	Width	Height	Total Height	
	520mm	268mm	220mm	240mm	
Approx Weight	65.00 Kg				
Internal Resistance	Full charged at 25°C (77°F): Approx 2.0mΩ				
Max.discharge current	2080A(5s)				
Floating design life @ 25°C (77°F)	15 years				
Capacity @ 25°C (77°F)	100Hour rate(3A/10.8V)	72Hour rate(4A/10.8V)	47Hour rate(6A/10.8V)	24Hour rate(11.6A/10.8V)	
	300Ah	286Ah	282Ah	278Ah	
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		
	93%	84%	65%		
Charge method @ 25°C (77°F)	Cycle Use	14.5-14.9V (Initial charging current less than 78.0A)			
	Float Use	13.6-13.8V			

### 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	20h
9.60V	A	936.00	572.00	455.00	299.00	157.30	91.00	67.60	54.60	45.61	30.12	28.60	14.82
	W	9921.60	6074.64	4868.50	3229.20	1714.57	991.90	743.60	600.60	501.69	334.29	317.46	166.73
10.20V	A	858.00	548.60	418.17	283.83	156.00	87.32	66.30	52.00	44.74	29.64	27.30	14.56
	W	9352.20	6089.46	4662.56	3193.13	1755.00	986.68	749.19	590.20	507.82	336.41	309.86	165.26
10.50V	A	795.71	524.32	390.00	275.17	150.80	85.58	65.00	49.40	44.20	29.25	26.78	14.38
	W	8752.79	5898.56	4407.00	3136.89	1719.12	979.93	744.25	568.10	508.30	336.38	307.97	165.35
10.80V	A	724.53	519.79	364.00	262.60	148.20	83.42	63.70	48.53	42.25	28.49	26.00	14.20
	W	7969.87	5925.63	4167.80	3033.03	1711.71	963.46	738.92	565.41	492.21	331.93	302.90	165.38
11.10V	A	626.60	494.00	338.00	244.40	143.00	81.25	61.10	47.67	40.41	27.73	25.35	14.04
	W	7080.58	5705.70	3920.80	2859.48	1673.10	950.63	717.93	562.47	476.82	327.25	299.13	165.67

