

Deep Cycle Batteries

6FM280D/12Volt 280Ah

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.

Application

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



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

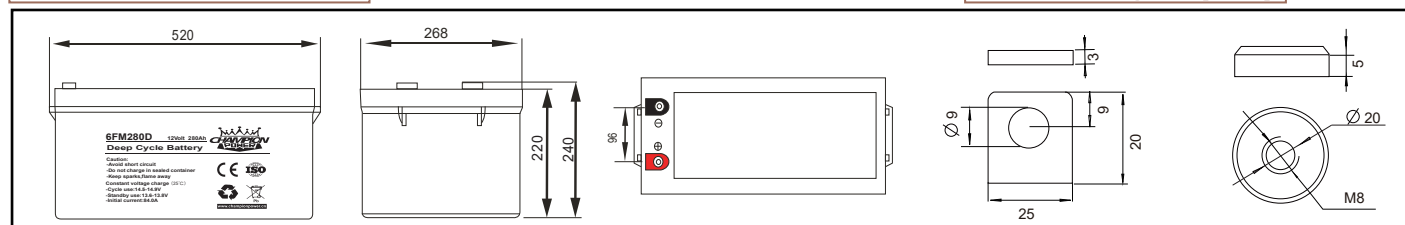
- ☆ Positive.....Lead dioxide
- ☆ Electrolyte.....Colloidal Sulfuric acid
- ☆ Separator.....Fiber glass
- ☆ Container.....ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
- ☆ Negative.....Lead
- ☆ Safety Valve.....EPDR
- ☆ Terminal.....Copper

Specification

Battery Model	Nominal Voltage	12V			
	Rated capacity (10Hour rate)	280Ah			
	Cells Per battery	6			
Dimension	Length	Width	Height	Total Height	
	520mm	268mm	220mm	240mm	
Approx Weight	73Kg				
Internal Resistance	Full charged at 25°C (77°F): Approx 1.5mΩ				
Max. discharge current	3360A(5s)				
Floating design life @ 25°C (77°F)	15 years				
Capacity @ 25°C (77°F)	10Hour rate(28A/10.8V)	5Hour rate(45A/10.5V)	3Hour rate(56A/10.5V)	1Hour rate(115A/9.60V)	
	280Ah	226Ah	168Ah	115Ah	
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 84A)			
	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	1008.00	616.00	490.00	322.00	168.00	98.00	72.80	58.80	49.12	32.43	30.80	15.96
	W	10684.80	6541.92	5243.00	3477.60	1831.20	1068.20	800.80	646.80	540.28	360.01	341.88	179.55
10.20V	A	924.00	618.33	450.33	305.67	173.60	94.03	71.40	56.00	48.18	31.92	29.40	15.68
	W	10071.60	6863.50	5021.22	3438.75	1953.00	1062.58	806.82	635.60	546.88	362.29	333.69	177.97
10.50V	A	856.92	590.80	420.00	296.33	168.00	92.17	70.00	53.20	47.60	31.50	28.84	15.48
	W	9426.08	6646.50	4746.00	3378.19	1915.20	1055.31	801.50	611.80	547.40	362.25	331.66	178.07
10.80V	A	780.27	564.67	392.00	282.80	162.40	89.83	68.60	52.27	45.50	30.68	28.00	15.29
	W	8582.93	6437.20	4488.40	3266.34	1875.72	1037.57	795.76	608.91	530.08	357.46	326.20	178.11
11.10V	A	674.80	532.00	364.00	263.20	154.00	87.50	65.80	51.33	43.52	29.87	27.30	15.12
	W	7625.24	6144.60	4222.40	3079.44	1801.80	1023.75	773.15	605.73	513.50	352.43	322.14	178.42



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