

FRONT TERMINAL BATTERY

6FM50F/12Volt 50Ah

Front Terminal Series Batteries are specially designed for telecom use with 12+ years design life in float service. By adopting a new AGM separator and centralised venting system, the battery can be installed in any position while maintaining high reliability.

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

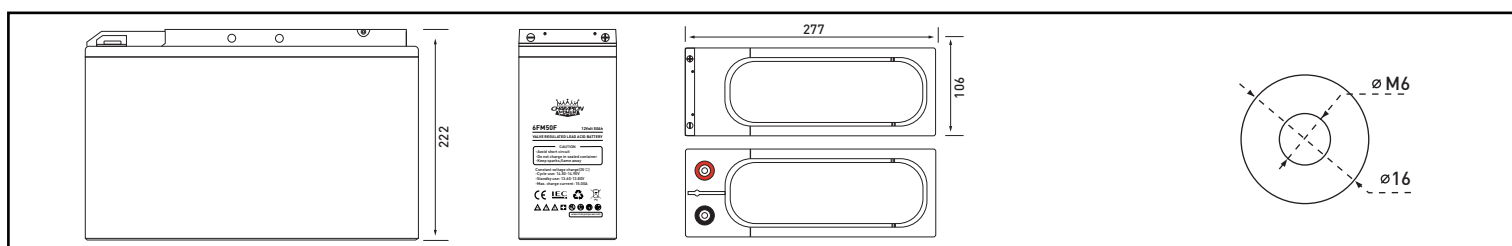
- ☆ Negative: Lead
- ☆ Positive: Lead dioxide
- ☆ Separator: Fiber glass
- ☆ Electrolyte: Sulfuric acid
- ☆ Safety Valve: EPDR
- ☆ Terminal: Copper
- ☆ Container: ABS(UL94-HB) / (UL94-V0)

SPECIFICATION

Battery Model	Nominal Voltage	12V			
	Rated capacity (10Hour rate)	50Ah			
	Cells Per battery	6			
Dimension	Length	Width	Height	Total Height	
	277mm	106mm	222mm	222mm	
Approx Weight	15.00Kg				
Internal Resistance	Full charged at 25°C(77°F): Approx 6.50mΩ				
Max.discharge current	400A(5s)				
Floating design life @ 25°C (77°F)	12 years				
Capacity @ 25°C (77°F)	10Hour rate(5.00A/10.8V)	5Hour rate(8.50A/10.5V)	3Hour rate(12.50A/10.5V)	1Hour rate(27.50A/10.5V)	
	50Ah	43Ah	38Ah	28Ah	
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	14.70-14.90V (Max. charge current: 15.00A)			
	Float Use	13.60-13.80V			

OUTER DIMENSION (mm)

TERMINAL TYPE (mm)

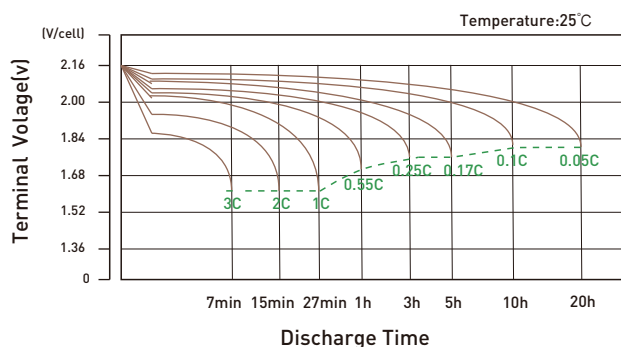


CONSTANT CURRENT(AMP) AND CONSTANT POWER(WATT) DISCHARGE TABLE AT 25°C (77°F)

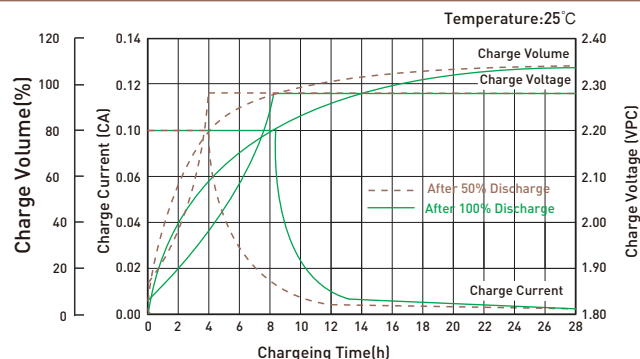
F.V / TIME		5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A	180.00	110.00	87.50	57.50	30.25	17.50	13.00	10.50	8.77	5.79	5.50	2.85
	W	1908.00	1168.20	936.25	621.00	329.73	190.75	143.00	115.50	96.48	64.29	61.05	32.06
10.20V	A	165.00	105.50	80.42	54.58	30.00	16.79	12.75	10.00	8.60	5.70	5.25	2.80
	W	1798.50	1171.05	896.65	614.06	337.50	189.75	144.08	113.50	97.66	64.70	59.59	31.78
10.50V	A	153.02	100.83	75.00	52.92	27.50	16.46	12.50	9.50	8.50	5.63	5.15	2.77
	W	1683.23	1134.34	847.50	603.25	313.50	188.45	143.13	109.25	97.75	64.69	59.23	31.80
10.80V	A	139.33	99.96	70.00	50.50	28.50	16.04	12.25	9.33	8.13	5.48	5.00	2.73
	W	1532.67	1139.54	801.50	583.28	329.18	185.28	142.10	108.73	94.66	63.83	58.25	31.80
11.10V	A	120.50	95.00	65.00	47.00	27.50	15.63	11.75	9.17	7.77	5.33	4.88	2.70
	W	1361.65	1097.25	754.00	549.90	321.75	182.81	138.06	108.17	91.70	62.93	57.53	31.86

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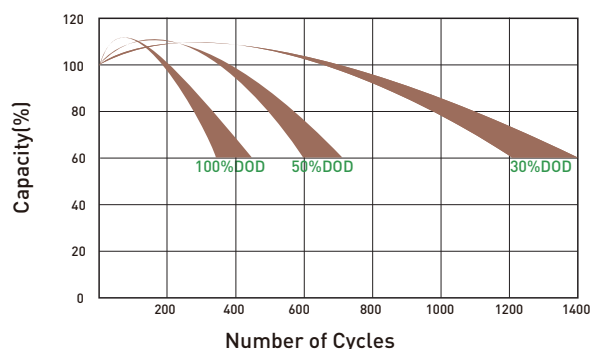
Discharge characteristic Curve



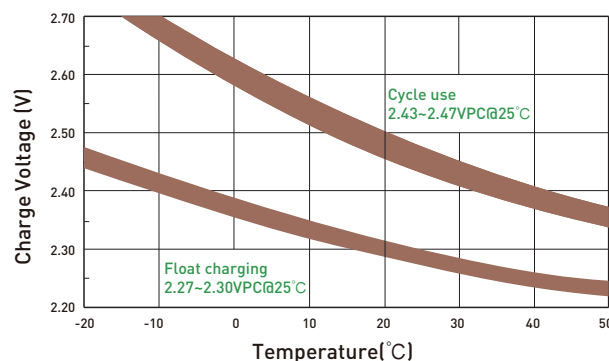
Charge Characteristic Curve For Standby Use



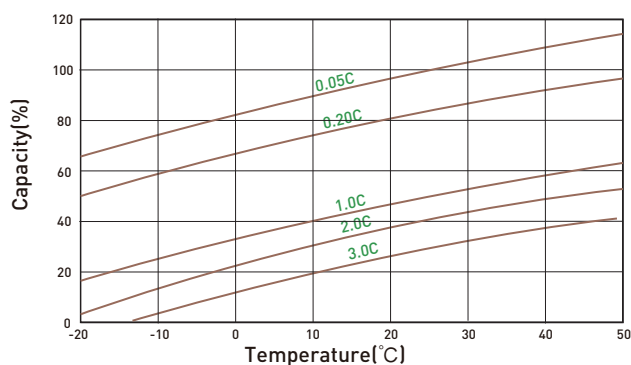
Cycle service life in relation to depth of discharge



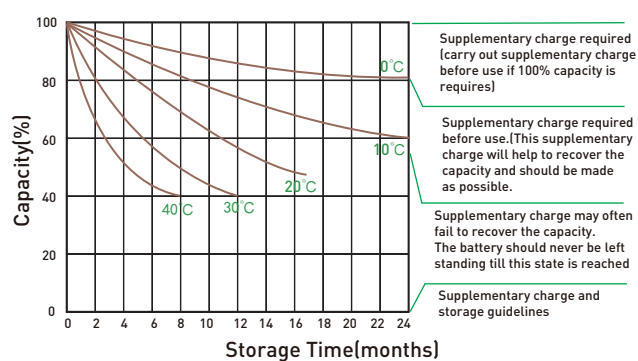
Relationship Between Charging Voltage And Temperature



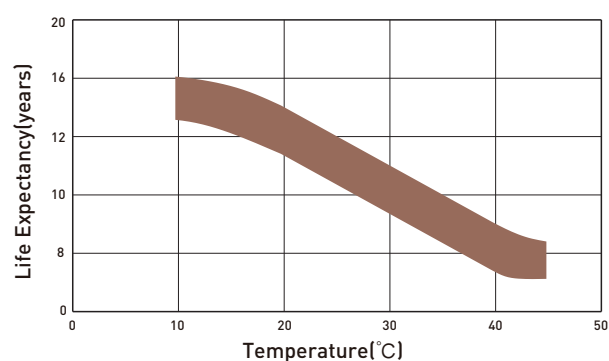
Temperature Effects On Capacity



Storage Characteristics



Effect Of emperature On Long Term Life



Charge Characteristic Curve For Standby Use

