FQS 6 - 12 AGM

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

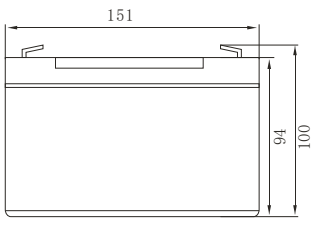
Construction

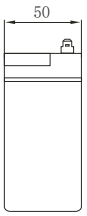
* Positive ..... Lead dioxide
* Electrolyte ..... Sulfuric acid
* Separator ..... Fiber glass
* Container ..... ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
* Negative ..... Lead
* Safety Valve ..... EPDR
* Terminal ..... Copper

Specification

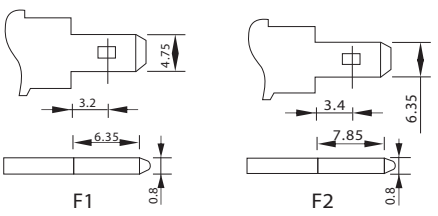
Battery Model	Nominal Voltage		6V	
	Rated capacity (20 Hour rate)		12Ah	
	Cells Per battery		3	
Dimension	Length	Width	Height	Total Height
	151mm (5.94 inches)	50mm (1.97 inches)	94mm (3.70 inches)	100mm (3.94 inches)
Approx Weight	1.66kg(3.65lbs) ± 3%			
Capacity @ 25°C (77 °F)	20 hour rate(0.6A,5.25V)	10 hour rate(1.1A,5.4V)	5 hour rate(2.04A,5.25V)	1 hour rate(7.2A,4.8V)
	12.0Ah	11Ah	10.2Ah	7.2Ah
Max.discharge current	180A (5 Sec.)			
Internal Resistance	Full charged at 25°C (77 °F): Approx 6.7mΩ			
Capacity affected by Temp.(20 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		Float Use	
	7.25-7.50V (Initial charging current less than 3.6A)		6.75-6.90V	

Outer dimension (mm)





Terminal Type (mm)



Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25 (77°F)

F.V\TIME		5min	10min	15min	30min	1 hr	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	20 hr
4.80V	A	43.20	27.10	21.00	13.80	7.20	4.20	3.09	2.48	2.11	1.39	1.13	0.62
	W	254.70	160.00	121.00	73.20	41.50	24.30	17.90	14.40	12.20	8.00	6.60	3.60
5.10V	A	39.60	26.50	19.30	13.10	6.76	4.03	3.00	2.40	2.06	1.37	1.10	0.61
	W	239.70	157.50	113.70	72.80	39.00	23.20	17.40	13.90	12.00	7.90	6.50	3.50
5.25V	A	36.70	25.30	18.00	12.70	6.54	3.95	2.95	2.28	2.04	1.35	1.10	0.60
	W	231.50	147.00	108.80	72.00	37.80	22.90	17.10	13.20	11.90	7.80	6.40	3.48
5.40V	A	33.40	24.20	16.80	12.10	6.32	3.85	2.90	2.24	1.95	1.31	1.07	0.59
	W	221.00	142.50	104.70	71.70	36.80	22.40	16.90	13.00	11.40	7.50	6.30	3.40
5.55V	A	28.90	22.80	15.60	11.30	6.10	3.75	2.75	2.20	1.87	1.28	1.05	0.57
	W	172.20	137.70	99.80	71.30	36.30	22.20	16.40	13.00	11.10	7.20	6.10	3.38

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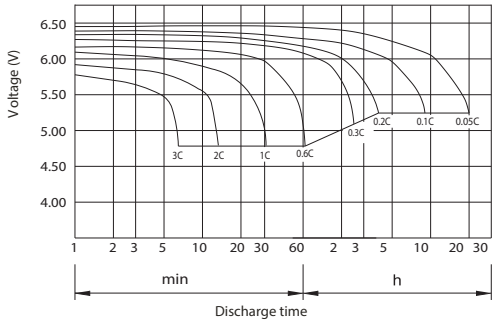
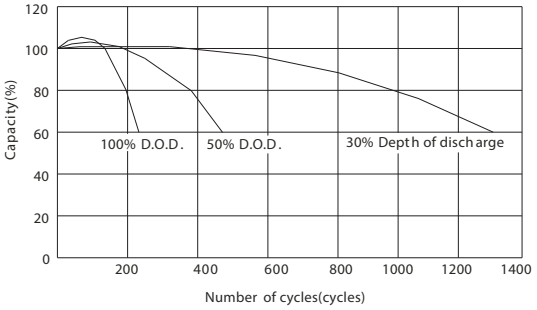
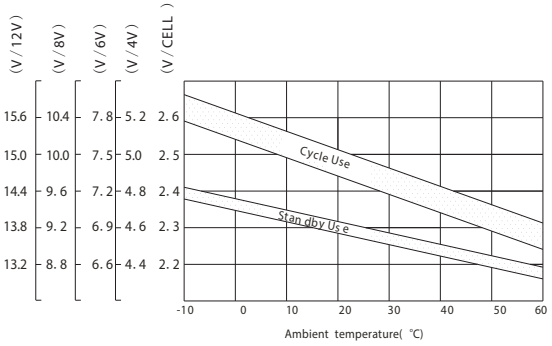
Discharge characteristic Curve



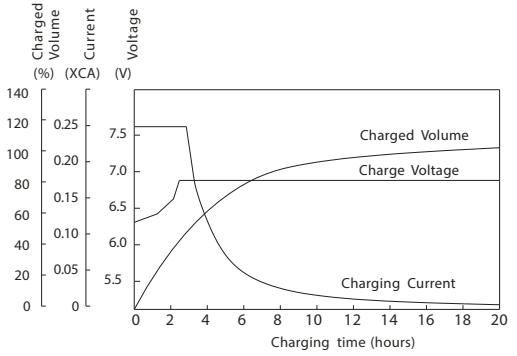
Cycle service life in relation to depth of discharge



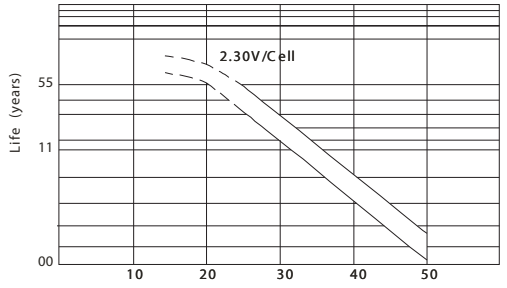
Relationship between charging voltage and temperature



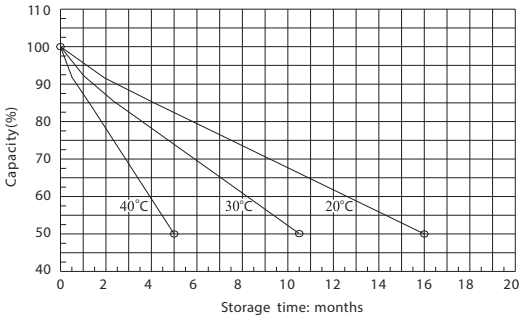
Constant voltage charging characteristic (0.25CA, at 25℃)



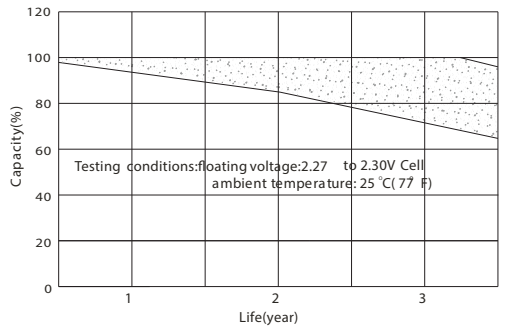
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use