FQS12 - 6 AGM

Applications

* 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

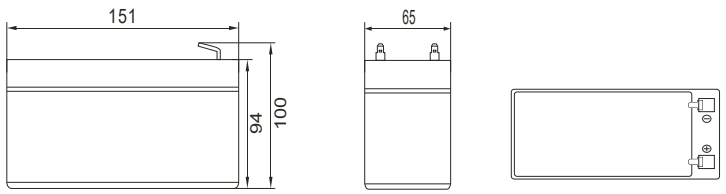
Construction

* 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

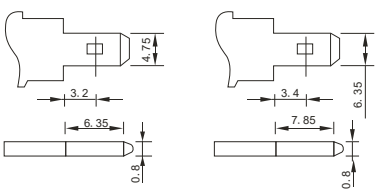
Specification

Battery Model	Nominal Voltage		12V	
	Rated capacity (20 Hour rate)		6.0Ah	
	Cells Per battery		6	
Dimension	Length	Width	Height	Total Height
	151mm (5.94 inches)	65mm (2.56 inches)	94mm (3.7 inches)	100mm (3.94 inches)
Approx Weight	1.83kg (4.03lbs) ± 3%			
Capacity @ 25˚C (77 ˚F)	20 hour rate(0.30A,10.5V)	10 hour rate(0.54A,10.8V)	5 hour rate(1.03A,10.2V)	1 hour rate(3.6A,9.6V)
	6.0Ah	5.4Ah	5.15Ah	3.6Ah
Max.discharge current	90A (5 Sec.)			
Internal Resistance	Full charged at 25˚C: Approx 43mΩ			
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	
	14.4-14.7V (Initial charging current less than 1.8A)		13.50-13.80V	

Outer dimension (mm)



Terminal Type (mm)



T1 T2

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
9.60V	A	21.60	14.20	10.50	6.90	3.60	2.10	1.55	1.24	1.05	0.69	0.57	0.31
	W	224.00	152.00	113.00	74.00	39.00	23.10	17.20	14.00	12.00	8.00	6.60	3.60
10.20V	A	19.80	13.50	9.60	6.60	3.40	2.01	1.50	1.20	1.03	0.68	0.56	0.30
	W	213.00	152.00	108.00	74.00	38.00	23.20	17.40	14.00	12.00	8.00	6.60	3.60
10.50V	A	18.00	12.70	9.00	6.30	3.30	1.98	1.47	1.14	1.03	0.68	0.55	0.30
	W	198.00	144.00	103.00	73.00	38.00	22.90	17.20	13.40	12.00	8.00	6.50	3.60
10.80V	A	17.30	12.10	8.40	6.20	3.20	1.92	1.45	1.12	0.98	0.66	0.54	0.29
	W	194.00	140.00	97.00	72.00	37.00	22.60	17.10	13.20	11.50	7.80	6.40	3.50
11.10V	A	16.00	11.40	7.80	6.00	3.00	1.88	1.38	1.10	0.93	0.64	0.53	0.29
	W	182.00	132.00	91.00	70.00	36.00	22.20	16.30	13.10	11.10	7.70	6.40	3.50

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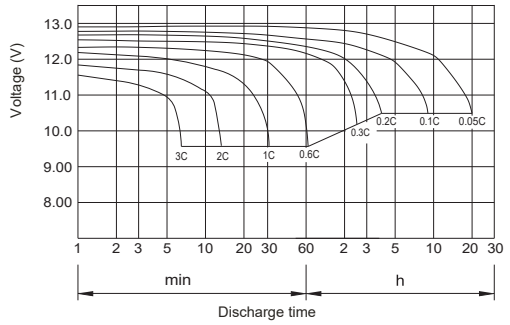
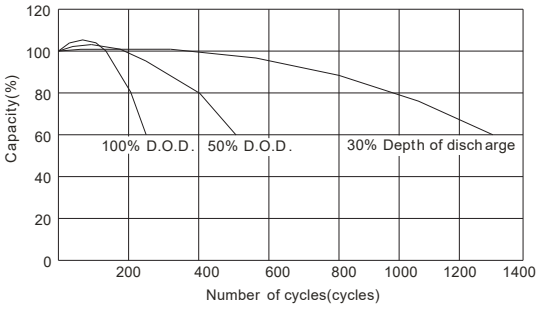
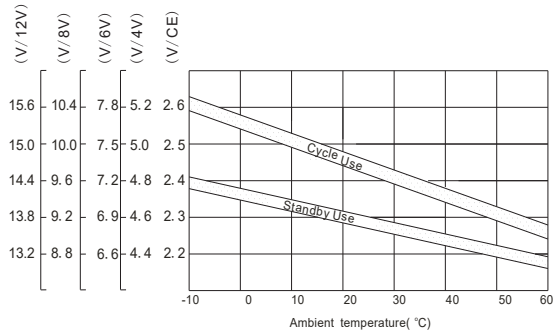
Discharge characteristic Curve



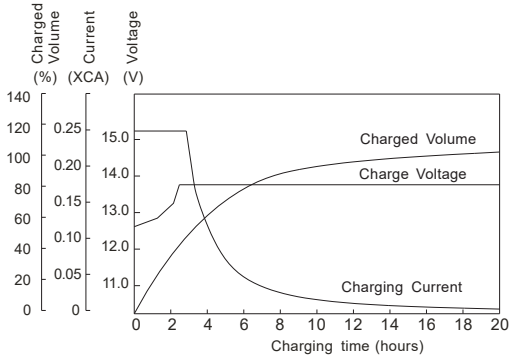
Cycle service life in relation to depth of discharge



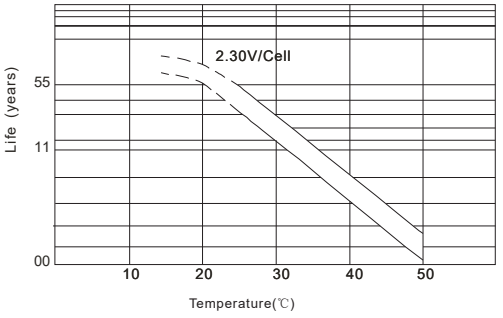
Relationship between charging voltage and temperature



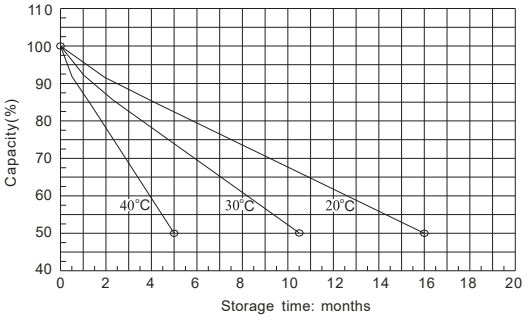
Constant voltage charging characteristic (0.25CA, at 25℃)



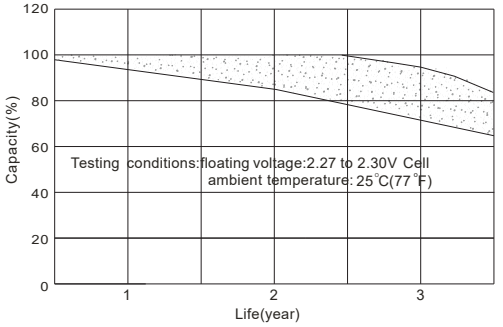
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use