General Series Battery

SY1270

General Series VRLA batteries are designed with AGM(Absorbent extra power output for common power backup system. General SeriesBatteries are the general purpose batteries with 5 years floating design life at 25℃. Glass Mat) technology,High performance plates and electrolyte togive

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

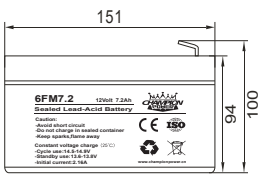
General Features

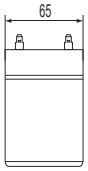
- Heavy Duty Grid
- Mechanized assembly
- Non-spillable construction
- High Reliability and Stability
- Sealed and Maintenance-free
- Long Life and low self-discharge design
- Positive.....Lead dioxide
- Electrolyte.....Sulfuric acid
- Separator.....Fiber glass
- Container.....ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
- Negative.....Lead
- Safety Valve.....EPDR
- Terminal.....Copper

Specification

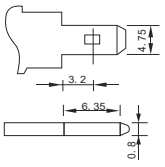
Battery Model	Nominal Voltage	12V		
	Rated capacity (20Hour rate)	7.2Ah		
	Cells Per battery	6		
Dimension	Length	Width	Height	Total Height
	151mm	65mm	94mm	100mm
Approx Weight	2.1Kg			
Internal Resistance	Full charged at 25℃(77℉): Approx 28mΩ			
Max.discharge current	108A(5s)			
Floating design life @ 25℃ (77℉)	5 years			
Capacity @ 25℃ (77℉)	20Hour rate(0.36A/10.5V)	10Hour rate(0.65A/10.8V)	5Hour rate(1.04A/10.8V)	1Hour rate(2.7A/10.5V)
	7.2Ah	6.48Ah	5.2Ah	2.7Ah
Capacity affected by Temp(20 HR)	40℃ (104℉)	25℃ (77℉)	0℃ (32℉)	-15℃(5℉)
	102%	100%	85%	65%
Self Discharge @ 25℃ (77℉)	After 3 months storage	After 6 months storage	After 12 months storage	
	91%	82%	64%	
Charge method @ 25℃ (77℉)	Cycle Use	14.5-14.9V (Initial charging current less than 2.16 A)		
	Float Use	13.6-13.8V		

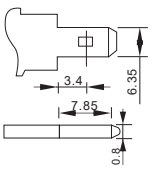
Outer Dimension(mm)





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	25.92	16.92	12.60	8.28	4.32	2.52	1.87	1.49	1.26	0.83	0.68	0.37
	W	274.75	179.69	134.82	89.42	47.09	27.47	20.59	16.37	13.89	9.26	7.59	4.13
10.20V	A	23.76	15.90	11.58	7.86	4.46	2.42	1.84	1.44	1.24	0.82	0.67	0.36
	W	258.98	176.49	129.12	88.43	50.22	27.32	20.75	16.34	14.06	9.32	7.59	4.12
10.50V	A	22.04	15.19	10.80	7.62	4.32	2.37	1.80	1.37	1.22	0.81	0.66	0.36
	W	242.39	170.91	122.04	86.87	49.25	27.14	20.61	15.73	14.08	9.32	7.62	4.14
10.80V	A	20.06	14.52	10.08	7.27	4.18	2.31	1.76	1.34	1.17	0.79	0.64	0.35
	W	220.70	165.53	115.42	83.99	48.23	26.68	20.46	15.66	13.63	9.19	7.51	4.09
11.10V	A	17.35	13.68	9.36	6.77	3.96	2.25	1.69	1.32	1.12	0.77	0.63	0.34
	W	196.08	158.00	108.58	79.19	46.33	26.33	19.88	15.58	13.20	9.06	7.43	4.04

ACDC DYNAMICS

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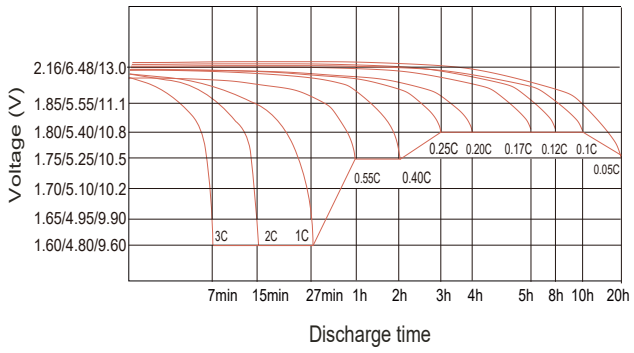
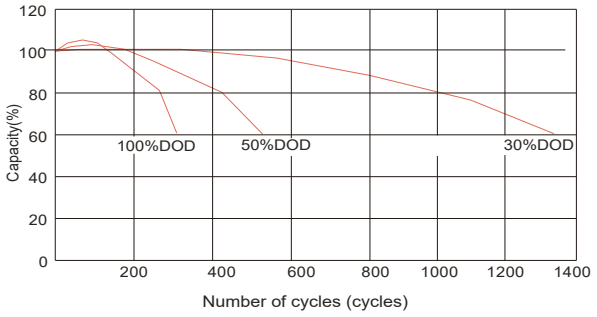
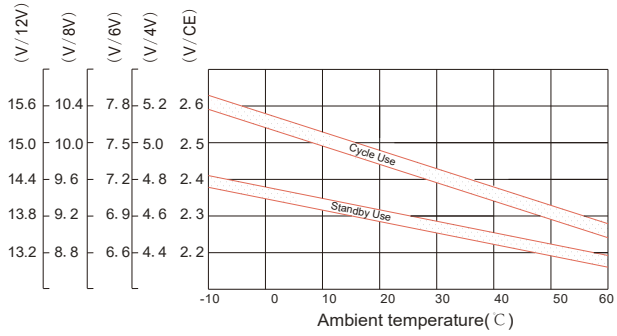
Discharge characterstic Curve



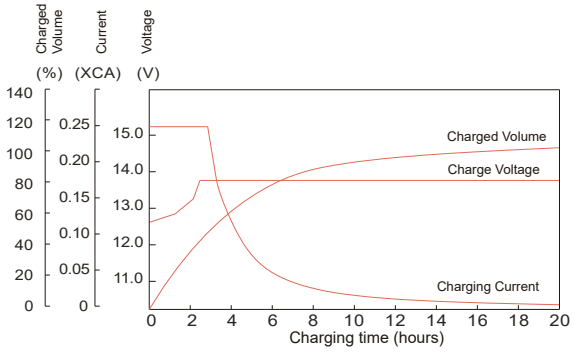
Cycle service life in relation to depth of discharge



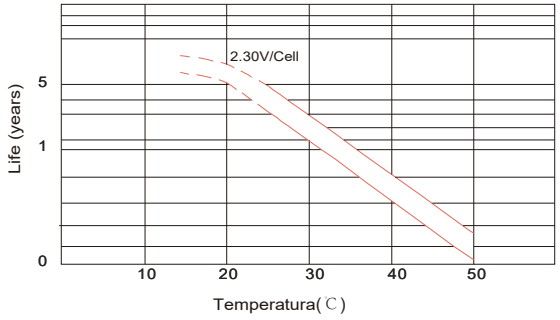
Relationship between charging voltage and temperature



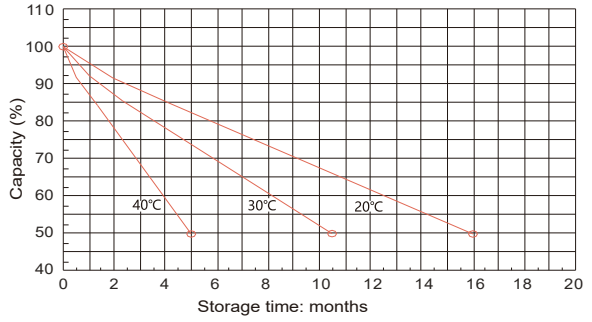
Constant voltage charging characteristic (0.25CA, at 25˚C)



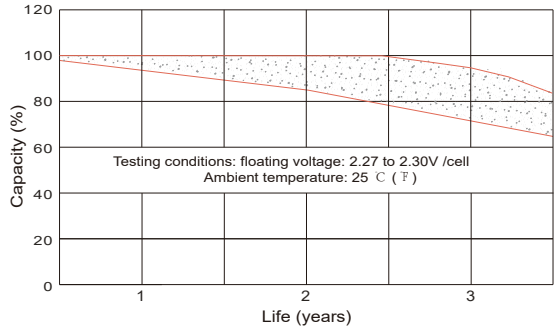
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characterstic for standby use