General Series Battery

SY632

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

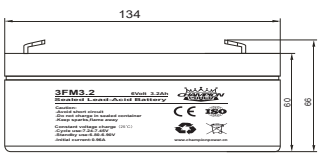
Construction

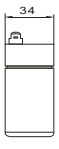
- Positive.....Lead dioxide
- Electrolyte.....Sulfuric acid
- Separator.....Fiber glass
- Container.....ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
- Negative.....Lead
- Safety Valve.....EPDR
- Terminal.....Copper

Specification

Battery Model	Nominal Voltage	6V		
	Rated capacity (20Hour rate)	3.2Ah		
	Cells Per battery	3		
Dimension	Length	Width	Height	Total Height
	134mm	34mm	60mm	66mm
Approx Weight	0.64Kg			
Internal Resistance	Full charged at 25℃(77℉): Approx 20mΩ			
Max.discharge current	48A(5s)			
Floating design life @ 25℃ (77℉)	5 years			
Capacity @ 25℃ (77℉)	20Hour rate(0.16A/5.25V)	10Hour rate(0.29A/5.4V)	5Hour rate(0.46A/5.25V)	1Hour rate(1.05A/5.25V)
	3.2Ah	2.9Ah	2.31Ah	1.05Ah
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	7.24-7.45V (Initial charging current less than 0.96 A)		
	Float Use	6.80-6.90V		

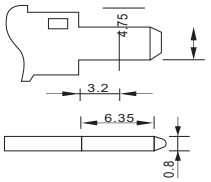
Outer Dimension(mm)







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
4.80V	A	11.52	7.52	5.60	3.68	1.92	1.12	0.83	0.66	0.56	0.37	0.30	0.16
	W	61.06	39.93	29.96	19.87	10.46	6.10	4.58	3.64	3.09	2.06	1.69	0.92
5.10V	A	10.56	7.07	5.15	3.49	1.98	1.07	0.82	0.64	0.55	0.36	0.30	0.16
	W	57.55	39.22	28.69	19.65	11.16	6.07	4.61	3.63	3.13	2.07	1.69	0.92
5.25V	A	9.79	6.75	4.80	3.39	1.92	1.05	0.80	0.61	0.54	0.36	0.29	0.16
	W	53.86	37.98	27.12	19.30	10.94	6.03	4.58	3.50	3.13	2.07	1.69	0.92
5.40V	A	8.92	6.45	4.48	3.23	1.86	1.03	0.78	0.60	0.52	0.35	0.29	0.16
	W	49.05	36.78	25.65	18.66	10.72	5.93	4.55	3.48	3.03	2.04	1.67	0.91
5.55V	A	7.71	6.08	4.16	3.01	1.76	1.00	0.75	0.59	0.50	0.34	0.28	0.15
	W	43.57	35.11	24.13	17.60	10.30	5.85	4.42	3.46	2.93	2.01	1.65	0.90

ACDC DYNAMICS

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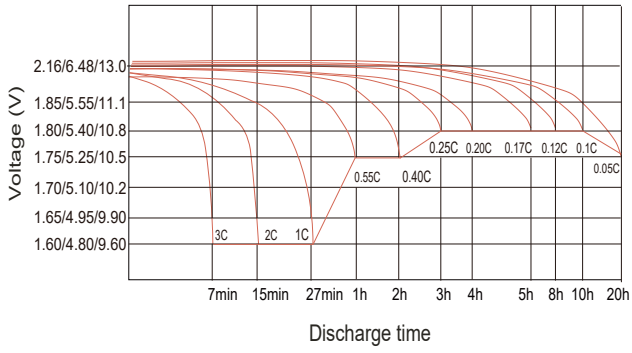
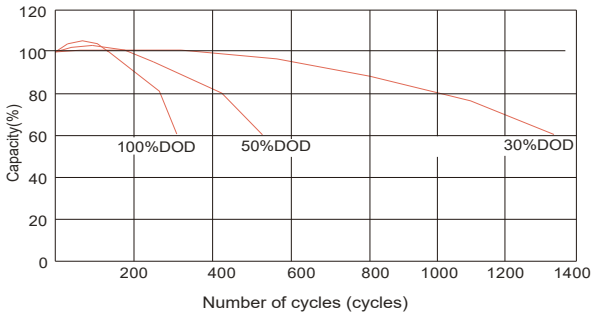
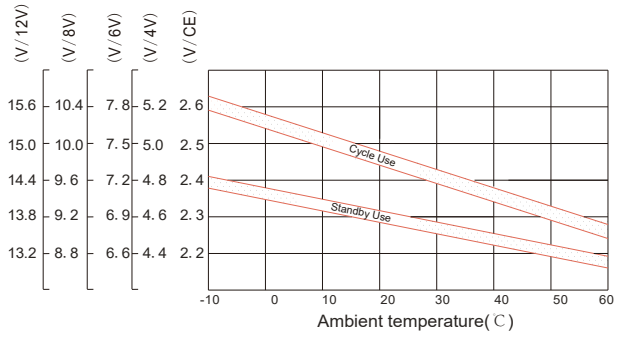
Discharge characterstic Curve



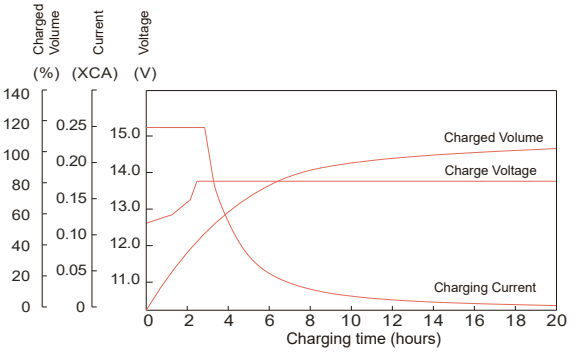
Cycle service life in relation to depth of discharge



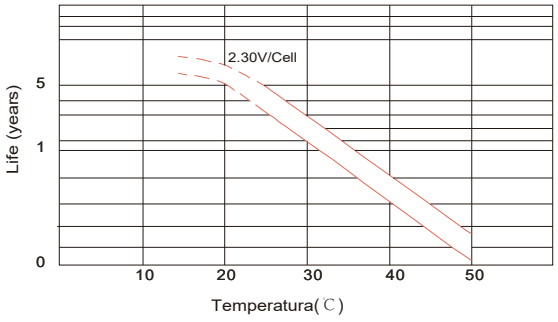
Relationship between charging voltage and temperature



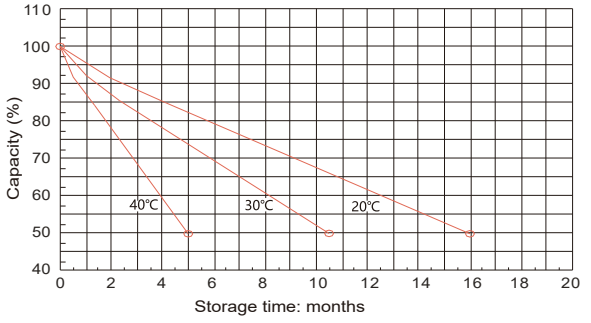
Constant voltage charging characteristic (0.25CA, at 25˚C)



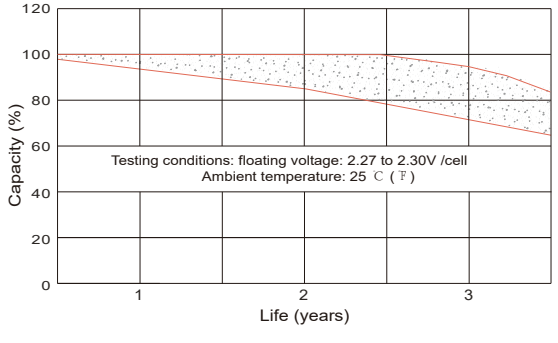
Temperature effects on float life



Self-discharge characteristic



Life characteristics of standby use



Charge characterstic for standby use

