

GP4-6

High Rate Series Battery

General Features



GP Series VRLA batteries are designed with AGM (Absorbent Glass Mat) technology, High performance plates and electrolyte to give extra power output for common power backup system. GP Series Batteries are the general purpose batteries with 5 years floating design life at 25°C

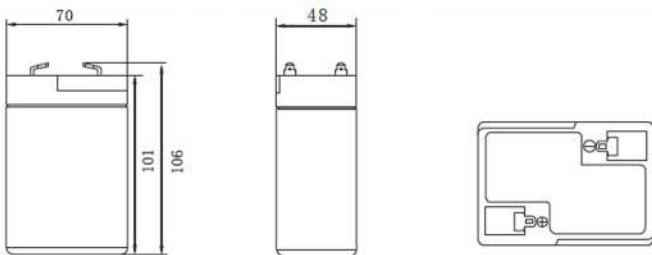
- Heavy Duty Grid
- Non-spillable construction
- Mechanized assembly
- High Reliability and Stability
- Sealed and Maintenance-free
- Long Life and low self-discharge design
- Terminal Type: F2

Container: ABS(UL94-HB) & Flame Retardant of UL94-V0 can be available upon request

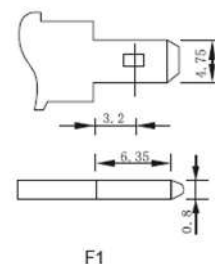
Specification

Battery Model	Nominal Voltage		6V	
	Rated capacity (20 Hour rate)		4.0Ah	
	Cells per battery		3	
Dimensions	Lenght	With	Height	Total Height
	70mm (2.76inches)	48mm (1.89inches)	101mm (3.98inches)	106mm (4.17inches)
Aprox Weight	0.62kg (1.37lbs) ± 3%			
Max. discharge current	60A (5Sec.)			
Internal Resistance	Full charged at 25°C: Approx 34mΩ			
Capacity affected by Temp. (10HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)
	102%	100%	85%	65%
Self Discharge at 25°C (77°F)	After 3 month storage		After 6 month storage	After 12 month storage
	91%		82%	64%
Charge method 25°C (77°F)	Cycle Use		Float Use	
	14.6-14.8V (Initial charging current less than 36A)		6.75-6.90V	

Outer Dimensions (mm)



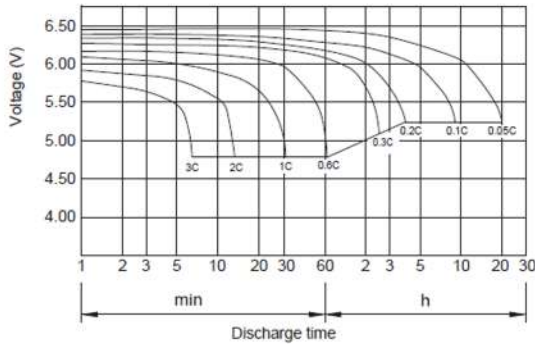
Terminal Type (mm)



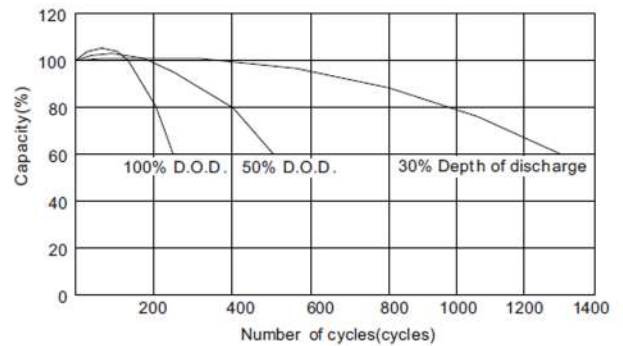
Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

	F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
A	1.60V	14.280	9.109	6.890	4.030	2.210	1.617	1.495	1.065	0.727	0.535	0.436	0.242
	1.67V	12.678	8.501	6.532	3.944	2.194	1.601	1.488	1.059	0.723	0.531	0.429	0.230
	1.70V	12.001	8.196	6.371	3.909	2.178	1.600	1.484	1.057	0.723	0.525	0.424	0.224
	1.75V	10.861	7.713	6.103	3.841	2.146	1.579	1.474	1.050	0.719	0.524	0.420	0.220
	1.80V	9.704	7.194	5.852	3.754	2.130	1.568	1.465	1.044	0.717	0.519	0.413	0.213
	1.85V	8.547	6.675	5.548	3.651	2.098	1.550	1.452	1.035	0.713	0.513	0.406	0.205
W	F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
	1.60V	26.411	17.389	13.298	8.028	3.230	2.320	2.991	2.131	1.454	1.071	1.071	0.484
	1.67V	23.444	16.226	12.617	7.860	3.198	2.318	2.979	2.123	1.449	1.064	1.064	0.460
	1.70V	22.198	15.655	12.315	7.792	3.196	2.319	2.973	2.119	1.449	1.054	1.054	0.448
	1.75V	20.091	14.735	11.808	7.660	3.158	2.318	2.953	2.106	1.442	1.052	1.052	0.442
	1.80V	17.954	13.749	11.341	7.492	3.143	2.313	2.935	2.096	1.438	1.043	1.043	0.427
	1.85V	15.817	12.763	10.763	7.291	3.116	2.310	2.910	2.080	1.432	1.031	1.031	0.413

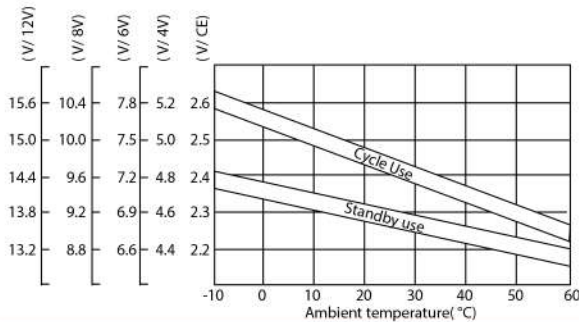
Discharge characteristic Curve



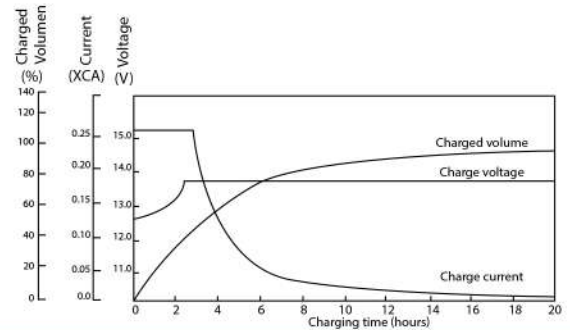
Cycle service life in relation to depth of discharge



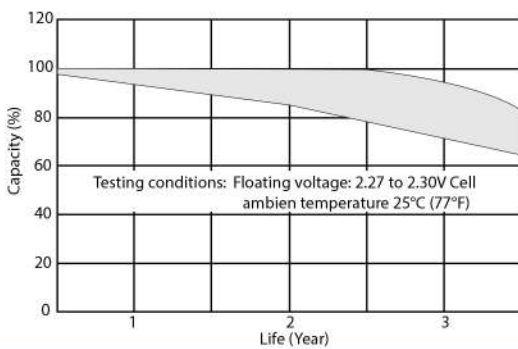
Relationship between charging voltage and temperature



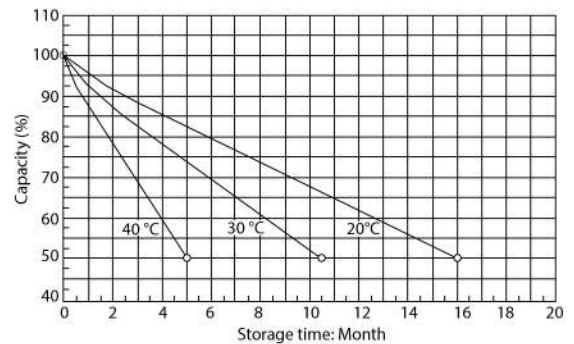
Constant voltage charging characteristic (0.25CA, at 25°C)



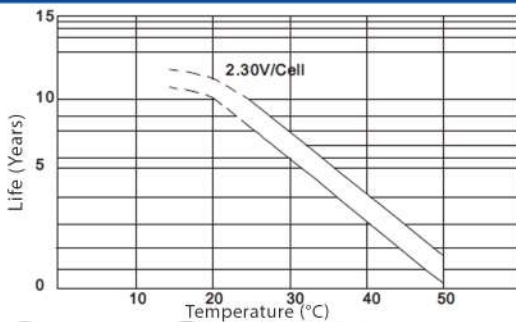
Life characteristics of standby use



Self-discharge characteristic



Temperature effects on float life



Charge characteristic Curve for standby use

