



Specification Sheet

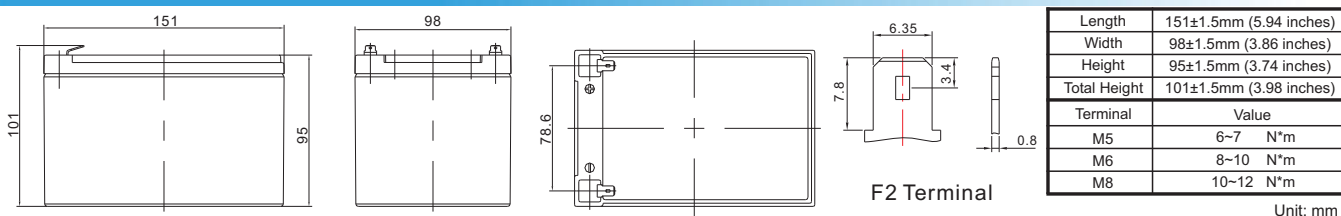
Deep Cycle VRLA Battery

DC12-12 (12V12Ah)

Cells Per Unit	6
Voltage Per Unit	12
	12Ah@20hr-rate to 1.75V per cell @25
Weight	Approx. 3.5 Kg (Tolerance $\pm 3.0\%$)
Internal Resistance	Approx. 15.8 m Ω
Terminal	F2
Max. Discharge Current	120A (5 sec)
Design Life	6~8 years (floating charge)
Max. Charging Current	3.6 A
Reference Capacity	C3 9.03AH C5 10.20AH C10 10.92AH C20 12.00AH
Float Charging Voltage	13.7 V~13.9 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V~14.8 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C $\pm 5^\circ\text{C}$
Self Discharge	Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



Dimensions



Constant Current Discharge Characteristics : A (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	47.58	31.03	22.89	13.25	7.654	4.516	3.283	2.614	2.207	1.275	1.187	0.615
1.65V	45.86	30.10	22.29	12.96	7.513	4.450	3.239	2.582	2.131	1.258	1.158	0.609
1.70V	43.62	28.89	21.50	12.57	7.325	4.362	3.181	2.539	2.087	1.240	1.136	0.602
1.75V	40.75	27.32	20.48	12.07	7.078	4.246	3.010	2.481	2.041	1.214	1.114	0.601
1.80V	37.13	25.32	19.16	11.42	6.755	4.093	2.973	2.405	2.003	1.179	1.092	0.583
1.85V	32.67	22.81	17.49	10.58	6.340	3.894	2.870	2.306	1.964	1.132	0.912	0.556

Constant Power Discharge Characteristics : WPC (25°C)

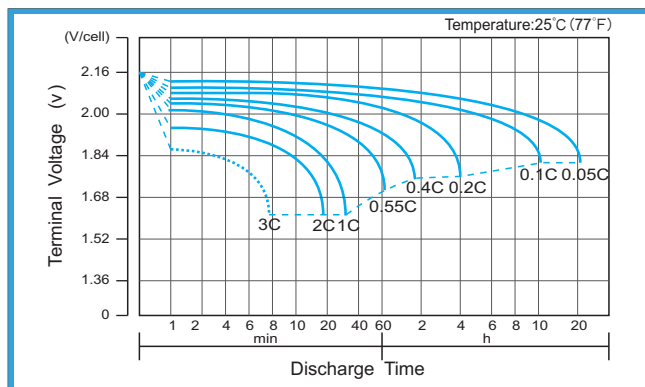
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	81.89	53.53	40.62	24.42	14.53	8.69	6.36	5.09	4.32	2.92	2.40	1.25
1.65V	81.03	53.32	40.39	24.24	14.41	8.62	6.32	5.06	4.29	2.90	2.38	1.24
1.70V	77.94	51.74	39.30	23.66	14.10	8.48	6.22	4.98	4.23	2.87	2.35	1.23
1.75V	74.12	49.81	37.97	22.94	13.69	8.29	6.10	4.89	4.16	2.82	2.31	1.21
1.80V	68.71	46.96	36.02	21.92	13.13	8.03	5.92	4.76	4.05	2.76	2.26	1.19
1.85V	61.54	43.06	33.35	20.52	12.41	7.68	5.68	4.58	3.91	2.67	2.19	1.16

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

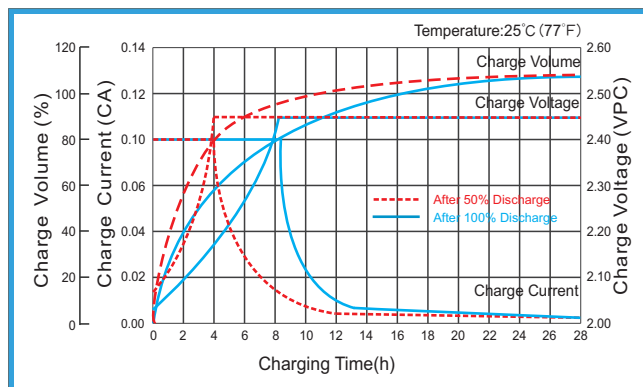
DC12-12 (12v12Ah-20HR)



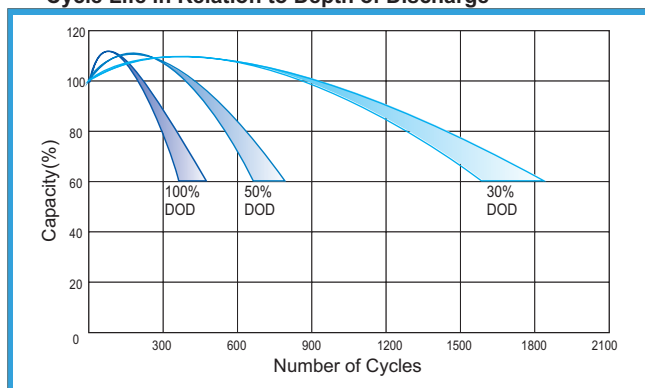
Discharge Characteristics Curve



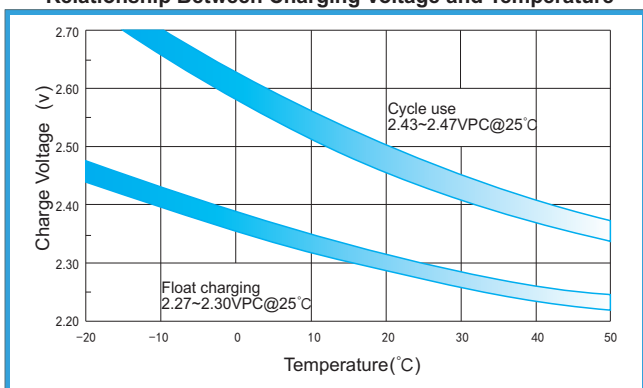
Charge Characteristic Curve for Cycle Use(IU)



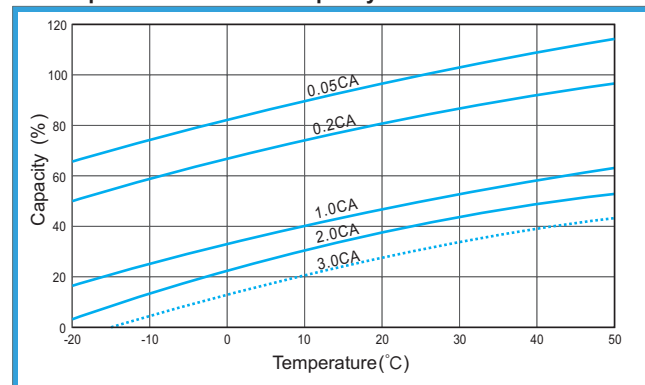
Cycle Life in Relation to Depth of Discharge



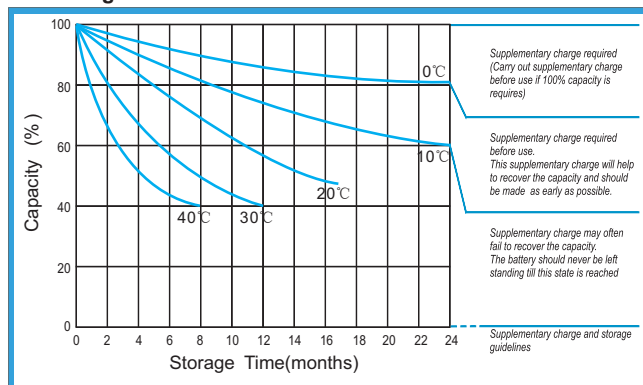
Relationship Between Charging Voltage and Temperature



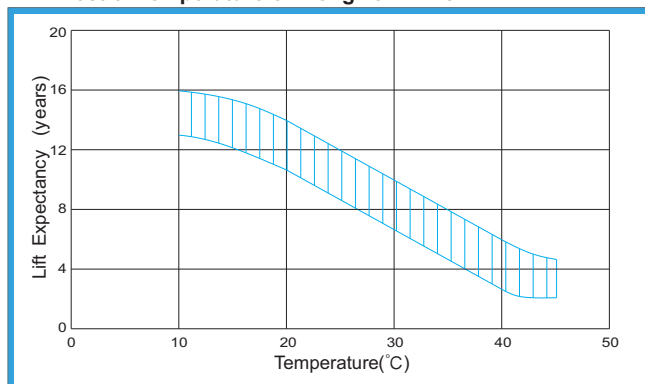
Temperature Effects on Capacity



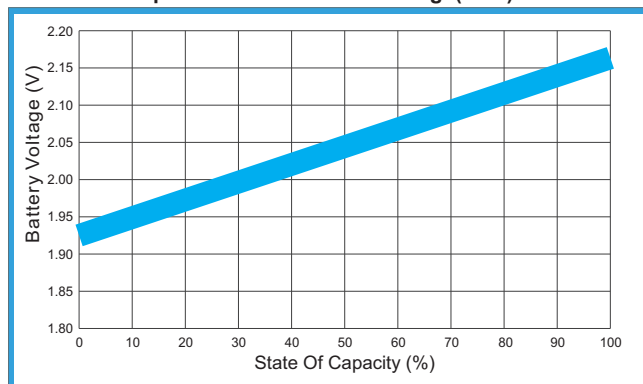
Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20°C)



(Note) All above information shall be changed without prior notice, AxiWin reserves the right to explain and update the latest information.