



Tropicana 12V12 Ah SMF/VRLA Battery

TP 12- 12

Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	12Ah@20hr-rate to 1.75V per cell @25C °
Weight	Approx. 3.60 Kg
Max. Discharge Current	120 A (5 sec)
Internal Resistance	Approx. 16 mΩ
Operating Temperature Range	Discharge: -20 °C~60 °C Charge: 0C~50C ° Storage: -20C~60C °
Normal Operating Temperature Range	25C±5C
Float charging Voltage	13.7 to 13.9 VDC/unit Average at 25C °
Recommended Maximum Charging Current Limit	3.6 A
Equalization and Cycle Service	14.6 to 14.8 VDC/unit Average at 25C °
Self Discharge	TROPICANA Valve Regulated Lead Acid (VRLA) batteries can be stored for more than 6 months at 25C. Self-discharge ratio less than 3% per month at 25C. Please charge batteries before using.
Terminal	Faston Tab 187(F1)/Faston tab 250(F2)
Constainer Material	A.B.S. (UL94-HB) ,

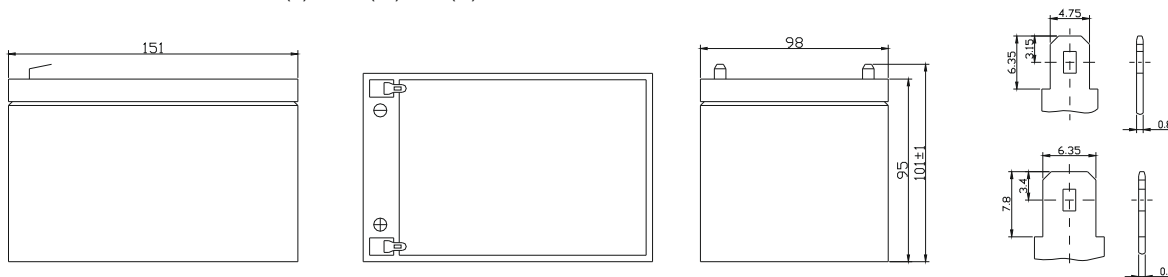


JIS 8702C,
Pt-I,II,III



Dimensions

Unit: mm Dimension: 151(L) × 98(W) × 95(H)



Constant Current Discharge Characteristics : A(25C) °

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	48.79	31.99	25.08	14.08	8.364	4.817	3.274	2.620	2.176	1.386	1.200	0.673
10.0V	47.03	31.19	24.27	13.90	8.136	4.720	3.213	2.583	2.139	1.380	1.187	0.649
10.2V	44.27	29.65	23.60	13.68	8.060	4.670	3.184	2.558	2.115	1.368	1.169	0.637
10.5V	39.79	27.72	22.26	13.31	7.901	4.609	3.156	2.533	2.090	1.355	1.163	0.618
10.8V	35.65	25.85	21.00	12.87	7.758	4.571	3.119	2.521	2.068	1.350	1.144	0.582
11.1V	31.19	23.70	19.37	12.38	7.550	4.387	3.058	2.499	2.047	1.339	1.126	0.572

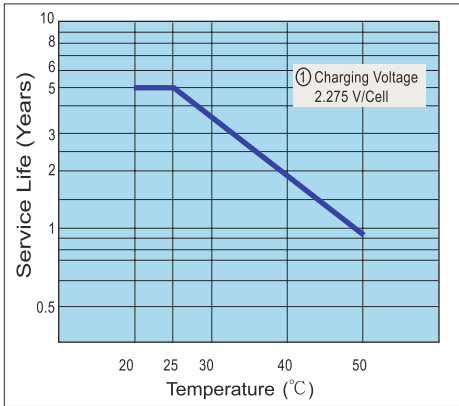
Constant Power Discharge Characteristics : W(25C) °

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	513.3	340.3	268.4	161.1	97.12	56.20	38.26	31.00	25.75	16.59	14.37	8.068
10.0V	500.0	333.2	264.6	159.5	95.69	55.72	38.19	30.92	25.62	16.53	14.24	7.781
10.2V	475.5	320.0	261.1	158.1	94.99	55.37	38.04	30.67	25.37	16.40	14.10	7.638
10.5V	434.0	306.8	247.5	154.8	93.71	54.92	37.89	30.39	25.07	16.26	13.95	7.422
10.8V	391.6	287.0	233.8	151.2	92.17	54.47	37.45	30.28	24.81	16.19	13.74	6.990
11.1V	345.3	267.2	220.2	147.0	90.45	52.58	36.71	29.97	24.57	16.08	13.54	6.879

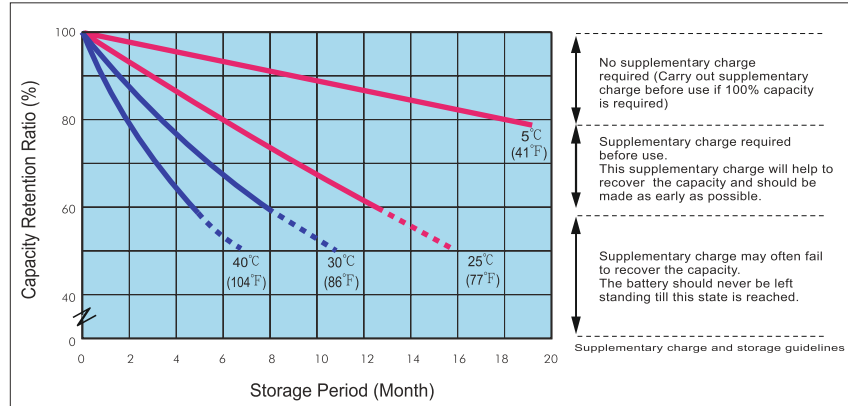


Tropicana 12V Series SMF/VRLA Battery

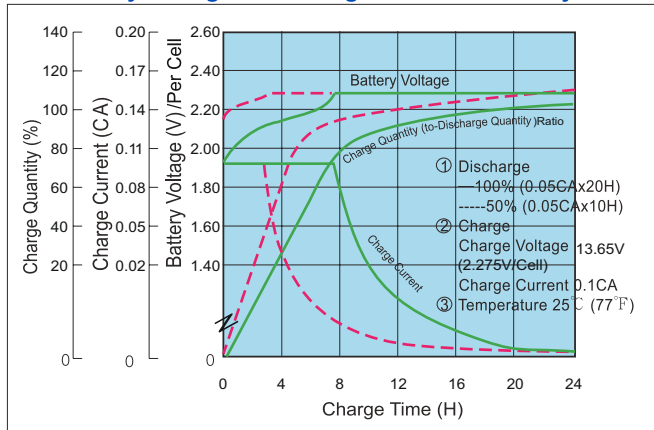
Trickle (or Float) Service Life



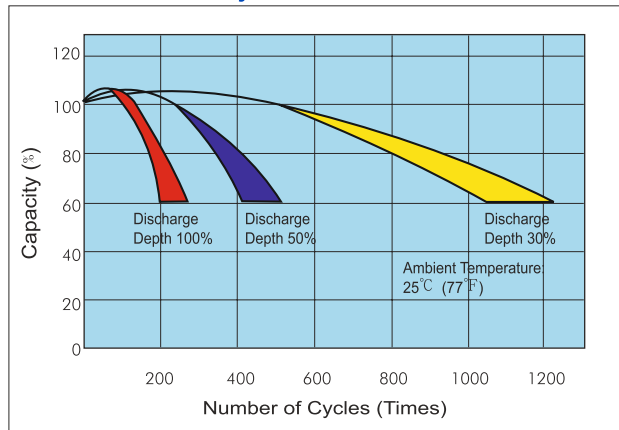
Capacity Retention Characteristic



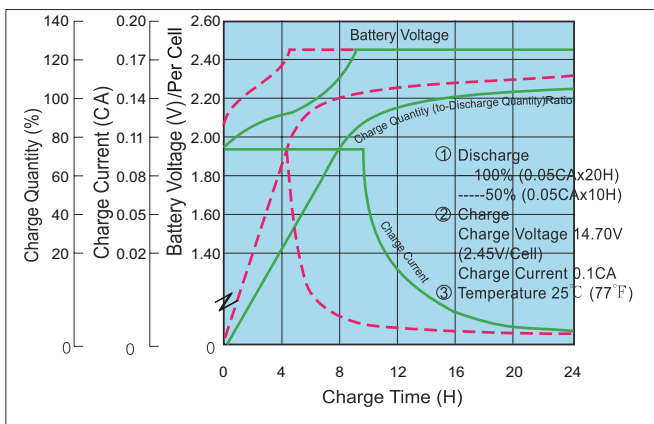
Battery Voltage and Charge Time for Standby Use



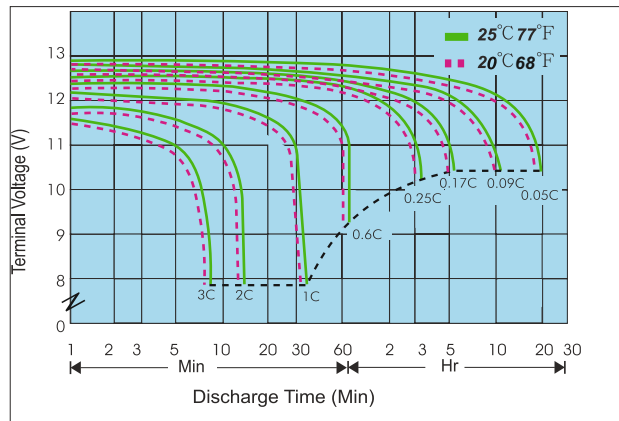
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



Terminal Voltage (V) and Discharge Time



Charging Procedures

Application	Charge Voltage(V/Cell)			Max.Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C(77°F)	2.45	2.40~2.50	0.3C
Standby	25°C(77°F)	2.275	2.25~2.30	

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.75	1.70	1.60	1.30
Discharge Current(A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C

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