

Product Features

General Purpose (GEL)		300~350 Cycle Times @100% DOD	
↑20% Cycle Life High temperature curing	↑10% Low Temp. Capacity Nano Gel Electrolyte	↑20% Charge Acceptance Special Negative Additive	↓50% Grid Corrosion Rare-earth patent alloy

Product Applications



Physical Specification

Model	Dimensions (mm/inch)				Weight (kg/lbs)	Terminal	Container
TNG2-3000	Length	Width	Height	Total Height	181/399	I7	ABS UL94-HB (Optional: FR ABS UL94-V0)
	710/28.0	350/13.8	337/13.3	347/13.7			

Product Specifications

Nominal Voltage	Rated Capacity ^{25°C/77°F}	Internal Resistance	Max. Discharge Current	Operating Temp. Range
2V	3200Ah 20hr Rate (1.80V/cell) 3000Ah 10hr Rate (1.80V/cell) 2665Ah 5hr Rate (1.75V/cell) 2448Ah 3hr Rate (1.70V/cell)	0.25mΩ@25°C/77°F	18000A (5s)	Discharge: -15~50°C (5~122°F) Charge: -0~40°C (32~104°F) Storage: -15~40°C (5~104°F) Optimum: 25±2°C (77±4°F)

Constant Current Discharge (A)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	2167	1672	1413	901	706	584	496	429	345	289	158
1.80V/cell	2400	1871	1570	972	747	610	515	448	358	300	160
1.75V/cell	2585	2014	1669	1042	782	633	533	464	369	307	164
1.70V/cell	2776	2121	1767	1083	816	660	550	474	375	313	169
1.67V/cell	2931	2217	1837	1124	853	683	571	490	383	318	171
1.60V/cell	3128	2336	1923	1157	872	704	589	504	393	325	173

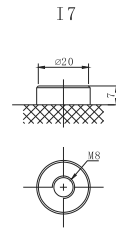
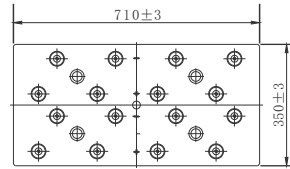
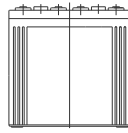
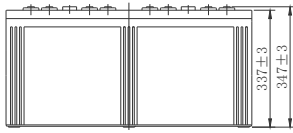
Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	4265	3315	2813	1811	1428	1185	1012	877	708	593	324
1.80V/cell	4709	3700	3117	1948	1505	1235	1047	913	733	614	329
1.75V/cell	5056	3973	3304	2080	1570	1278	1081	943	753	627	335
1.70V/cell	5413	4177	3493	2157	1634	1329	1112	960	762	637	344
1.67V/cell	5700	4354	3620	2233	1703	1369	1151	990	776	645	349
1.60V/cell	6056	4570	3776	2291	1736	1406	1181	1014	794	657	351

TNG2-3000[2V3000Ah]

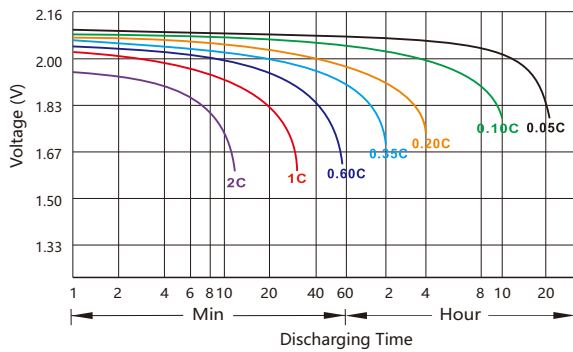


Battery Dimensions(mm)

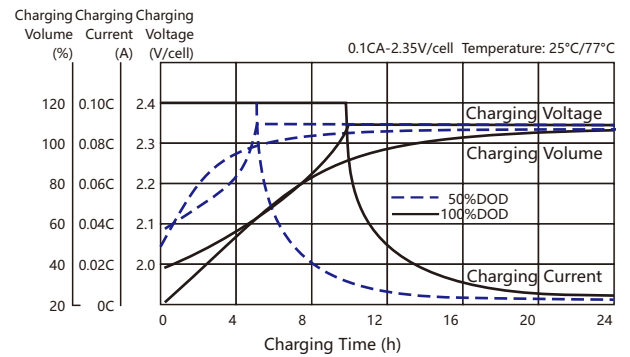


Electrical Characteristics

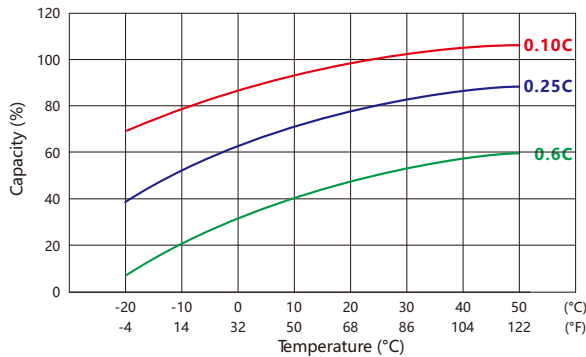
Discharging Characteristics(25°C)



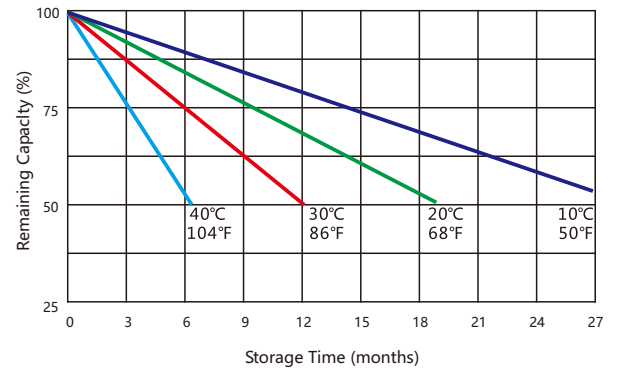
Charging Characteristics(25°C)



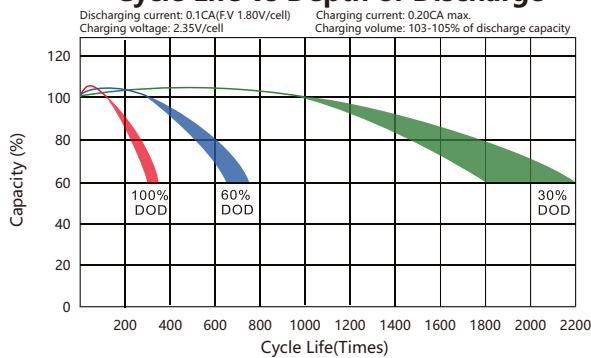
Capacity vs Temperature



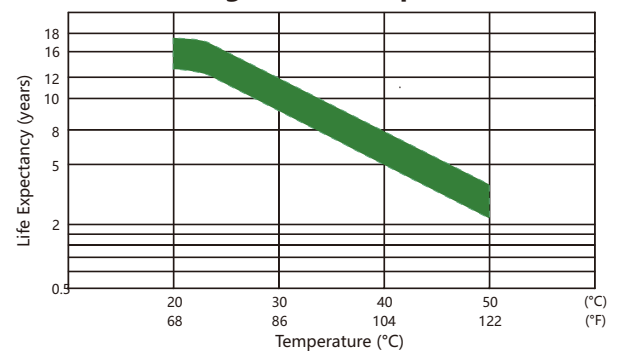
Self-discharge vs Time



Cycle Life vs Depth of Discharge



Floating Life vs Temperature



Usage and Maintenance

Charge Current	Equalization Charge	Float Charge
Limited current: $\leq 0.2C_{10}A$	Constant Voltage: 2.35~2.40V@25°C(77°F) Temp.Coefficient: -4mV/°C	Constant Voltage: 2.23~2.27V@25°C(77°F) Temp.Coefficient: -3mV/°C