



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
TNG2-300	Length	Width	Height	Total Height	18.0/39.7	I7	ABS UL94-HB (Optional: FR ABS UL94-V0)
	170/6.69	150/5.91	330/13.0	341.5/13.4			

Product Specifications

Nominal Voltage	Rated Capacity 25°C/77°F	Internal Resistance	Max. Discharge Current	Operating Temp. Range
2V	320Ah 20hr Rate (1.80V/cell) 300Ah 10hr Rate (1.80V/cell) 267Ah 5hr Rate (1.75V/cell) 245Ah 3hr Rate (1.70V/cell)	1.0mΩ@25°C/77°F	1800A (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	217	167	141	90.1	70.6	58.4	49.6	42.9	34.5	28.9	15.8
1.80V/cell	240	187	157	97.2	74.7	61.0	51.5	44.8	35.8	30.0	16.0
1.75V/cell	258	201	167	104	78.2	63.3	53.3	46.4	36.9	30.7	16.4
1.70V/cell	278	212	177	108	81.6	66.0	55.0	47.4	37.5	31.3	16.9
1.67V/cell	293	222	184	112	85.3	68.3	57.1	49.0	38.3	31.8	17.1
1.60V/cell	313	234	192	116	87.2	70.4	58.9	50.4	39.3	32.5	17.3

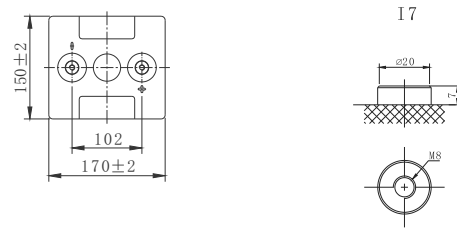
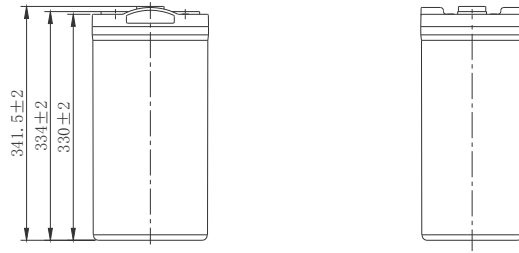
Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	426	331	281	181	143	119	101	87.7	70.8	59.3	32.4
1.80V/cell	471	370	312	195	151	123	105	91.3	73.3	61.4	32.9
1.75V/cell	506	397	330	208	157	128	108	94.3	75.3	62.7	33.5
1.70V/cell	541	418	349	216	163	133	111	96.0	76.2	63.7	34.4
1.67V/cell	570	435	362	223	170	137	115	99.0	77.6	64.5	34.9
1.60V/cell	606	457	378	229	174	141	118	101	79.4	65.7	35.1

TNG2-300[2V300Ah]

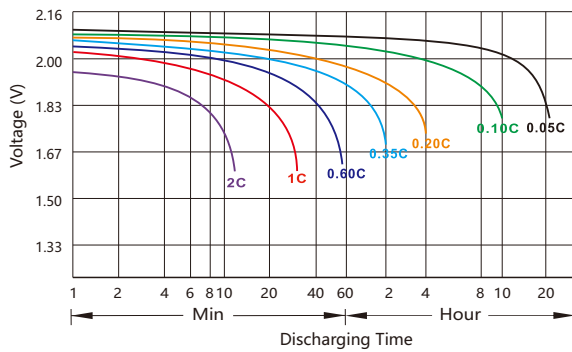


Battery Dimensions(mm)

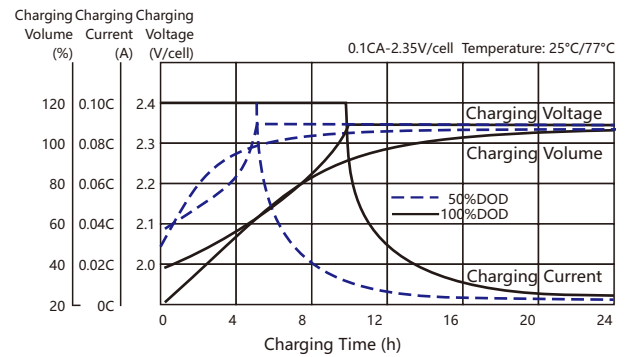


Electrical Characteristics

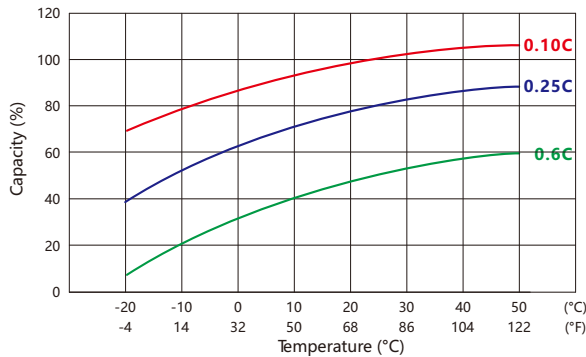
Discharging Characteristics(25°C)



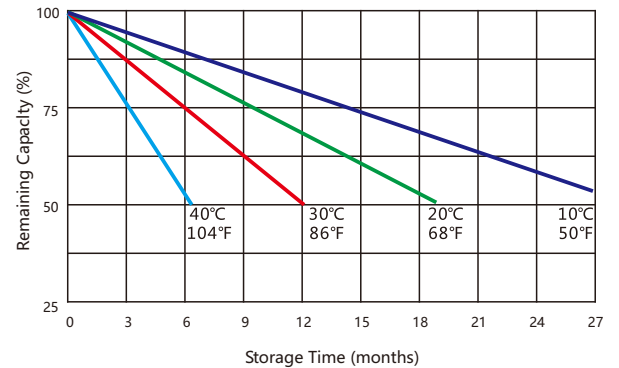
Charging Characteristics(25°C)



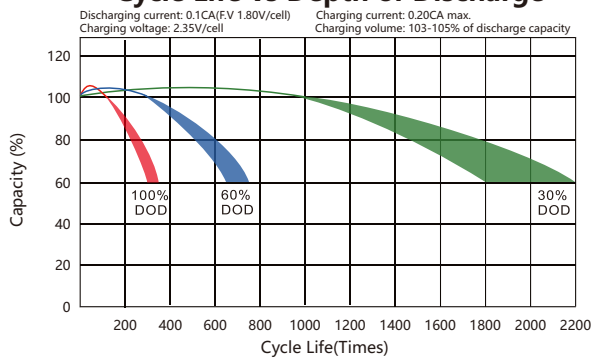
Capacity vs Temperature



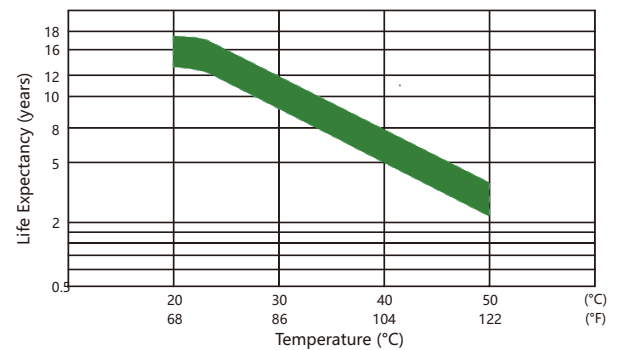
Self-discharge vs Time



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