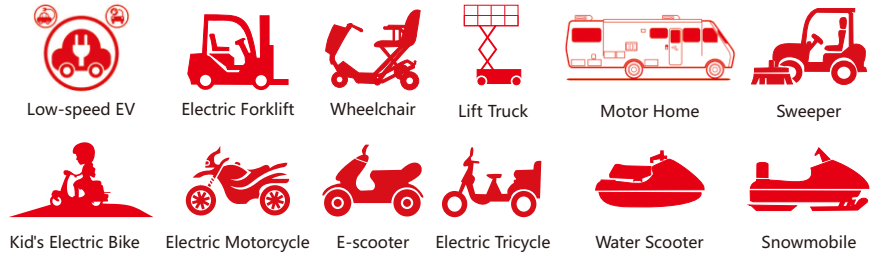




Product Features

Deep Cycle Series	400~600 Cycle Times @100%DOD	
↑10% Energy Density Patent negative pasting formula	↓50% Grid Corrosion Rare-earth patent alloy	0% Acid stratification Nano silica gel technology

Product Applications



Physical Specification

Model	Dimensions (mm/inch)				Weight (kg/lbs)	Terminal	Container
TNE12-175	Length	Width	Height	Total Height	45/99.2	I7	ABS UL94-HB (Optional: FR ABS UL94-V0)
	339/13.3	172/6.77	281/11.1	281/11.1			

Product Specifications

Nominal Voltage	Rated Capacity 25°C/77°F	Operating Temp. Range	Capacity Effected Temp	Capacity vs Storage Time
12V	175Ah 20hr Rate (1.80V/cell) 158Ah 10hr Rate (1.75V/cell) 149Ah 5hr Rate (1.75V/cell) 140Ah 3hr Rate (1.75V/cell)	Discharge:-15°C~50°C (5°F~122°F) Charge:0°C~40°C (32°F~104°F) Storage:-15°C~40°C (5°F~104°F) Optimum:25°C±2°C (77°F±5°F)	40°C (104°F):106% 25°C (77°F):100% 0°C (32°F):85% -15°C (5°F):72%	Three months : 90% Six months : 80% Nine months : 60%

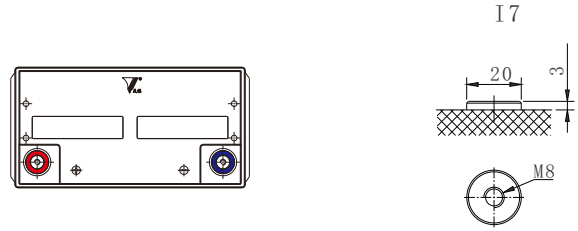
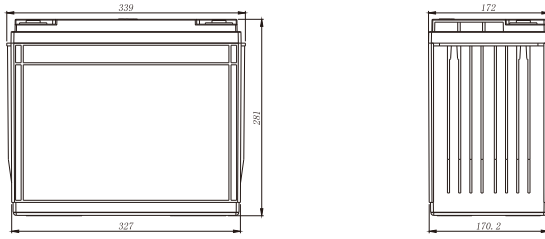
Constant Current Discharge (A)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	188	134	107	61.3	43.3	34.3	28.0	23.8	18.4	15.1	8.46
1.80V/cell	194	138	110	63.4	45.0	35.3	29.1	24.7	18.9	15.4	8.75
1.75V/cell	200	143	114	67.4	46.7	36.5	29.7	25.2	19.4	15.8	8.92
1.70V/cell	204	147	118	68.4	47.7	37.8	31.0	26.5	19.9	16.2	9.12
1.67V/cell	209	151	123	69.2	48.3	38.1	31.7	26.6	20.3	16.4	9.20
1.60V/cell	214	156	125	71.5	50.0	39.3	32.4	27.4	20.8	17.0	9.27

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

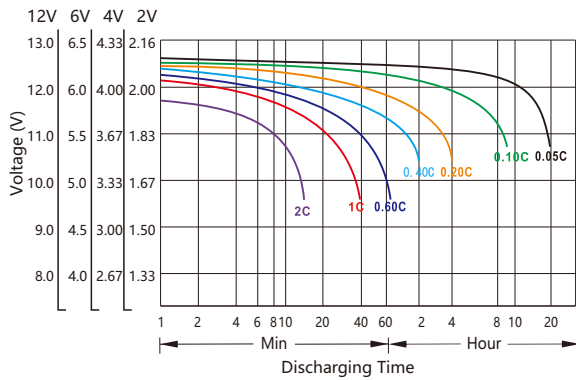
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	366	263	212	122	86.9	69.0	56.5	48.1	37.2	30.5	17.2
1.80V/cell	378	270	218	126	89.8	70.7	58.4	49.8	38.1	31.2	17.7
1.75V/cell	387	279	225	133	92.9	72.9	59.5	50.6	39.1	31.7	18.0
1.70V/cell	394	284	231	135	94.4	75.0	61.6	52.7	39.8	32.4	18.3
1.67V/cell	399	291	238	135	95.0	75.3	62.6	52.7	40.3	32.7	18.4
1.60V/cell	406	298	241	139	97.4	76.9	63.5	53.8	41.1	33.5	18.5

Battery Dimensions(mm)

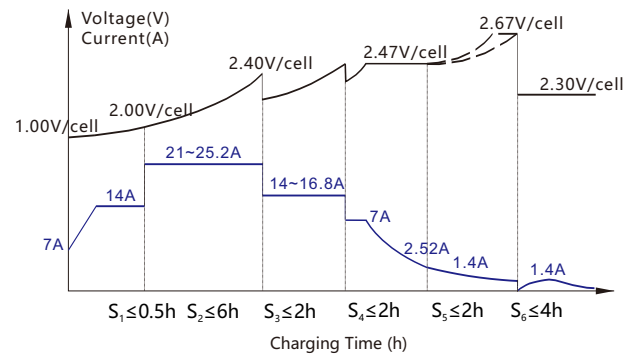


Electrical Characteristics

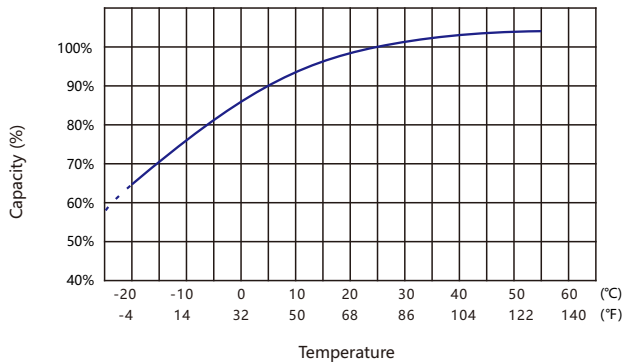
Discharging Characteristics@25°C(77°F)



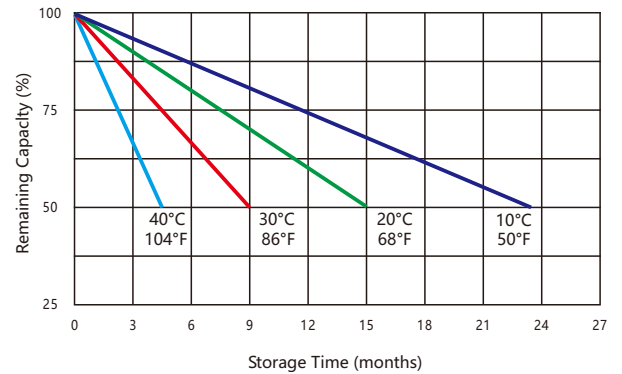
Charging Characteristics@25°C(77°F)



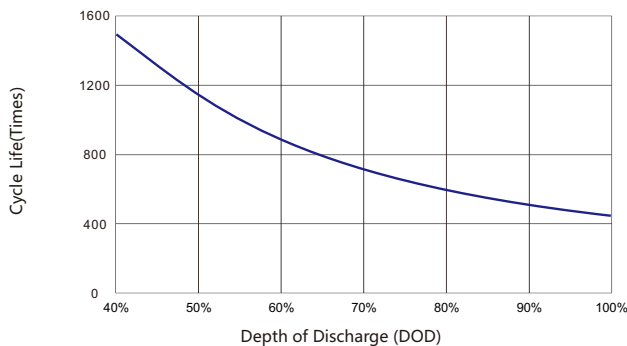
Capacity vs Temperature



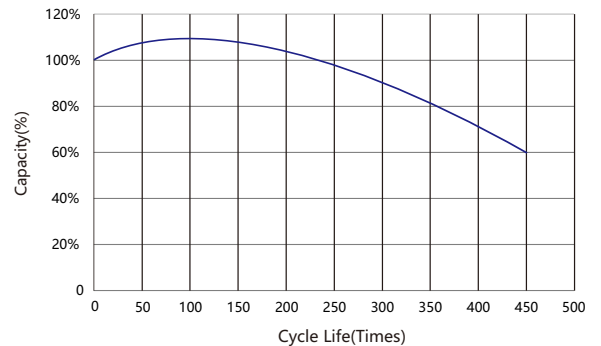
Self-discharge vs Time



Cycle Life vs Depth of Discharge@25°C(77°F)



Cycle Life vs Remaining Capacity@25°C(77°F)



Usage and Maintenance

Limited Current	Limited Voltage	Floating Voltage
Limited current: $\leq 0.2C_3A$	14.4V~14.8V@25°C(77°F) Temp.Coefficient:-24mV/°C	13.5V~13.8V@25°C(77°F) Temp.Coefficient:-18mV/°C