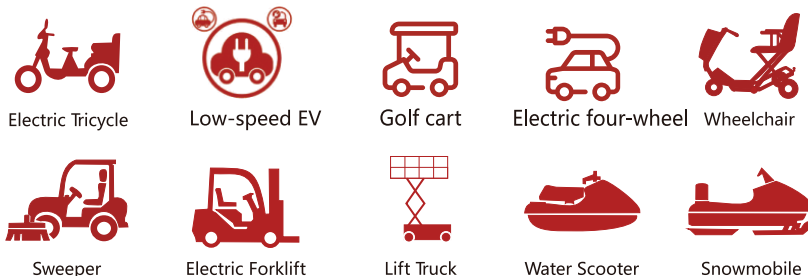




Product Features

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) ±3%	Terminal	Container
TNE12-150	Length	Width	Height	Total Height	41.0/90.4	I7	ABS UL94-HB (Optional: FR ABS UL94-V0)
	407/16.0	171/6.73	240/9.45	240/9.45			

Product Specifications

Nominal Voltage	Rated Capacity25°C/77°C	Operating Temp.Range	Capacity Effected Temp	Capacity vs Storage Time (25°C/77°F)
12V	150Ah 20hr Rate (1.80V/cell) 135Ah 10hr Rate (1.75V/cell) 128Ah 5hr Rate (1.75V/cell) 120Ah 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%

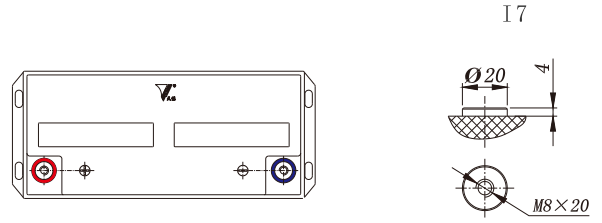
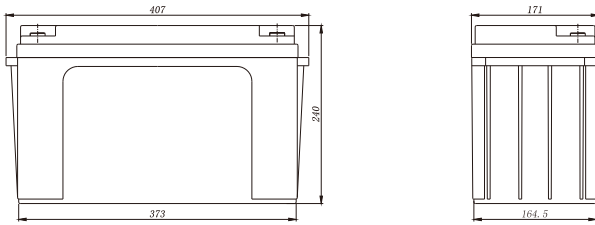
Constant Current Discharge (A)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	160.8	114.6	91.8	52.5	37.2	29.36	24.00	20.43	15.75	12.90	7.25
1.80V/cell	166.5	118.0	94.7	54.3	38.6	30.23	24.93	21.17	16.20	13.23	7.50
1.75V/cell	171.0	122.4	98.1	57.8	40.0	31.31	25.50	21.63	16.67	13.50	7.64
1.70V/cell	175.2	125.6	101.6	58.7	40.9	32.40	26.55	22.68	17.06	13.85	7.82
1.67V/cell	178.8	129.6	105.2	59.3	41.4	32.70	27.15	22.80	17.44	14.09	7.88
1.60V/cell	183.6	133.4	107.3	61.3	42.9	33.67	27.75	23.47	17.87	14.55	7.94

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

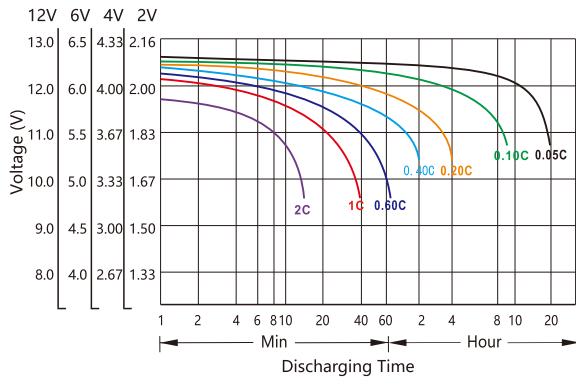
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	314.1	225.4	181.6	104.7	74.5	59.1	48.4	41.3	31.91	26.16	14.77
1.80V/cell	323.9	231.2	186.5	107.9	77.0	60.6	50.0	42.7	32.69	26.75	15.20
1.75V/cell	331.4	239.3	192.8	114.3	79.6	62.5	51.0	43.3	33.50	27.19	15.44
1.70V/cell	337.8	243.8	198.3	115.5	80.9	64.3	52.8	45.2	34.13	27.73	15.72
1.67V/cell	342.0	249.7	204.1	116.1	81.4	64.5	53.7	45.1	34.58	28.02	15.76
1.60V/cell	348.2	255.2	206.2	118.9	83.5	65.9	54.4	46.1	35.20	28.72	15.85

Battery Dimensions(mm)

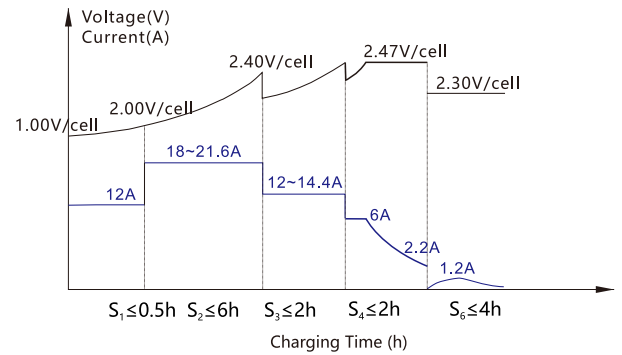


Electrical Characteristics

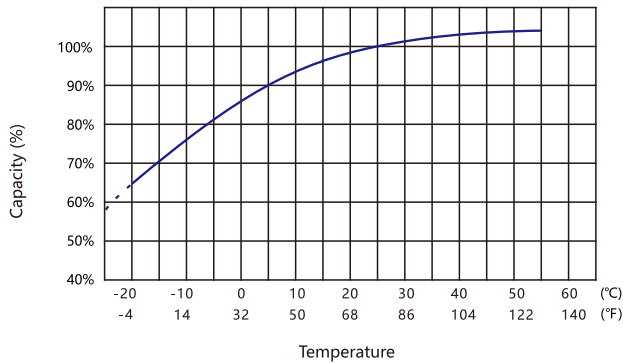
Discharging Characteristics@25°C(77°F)



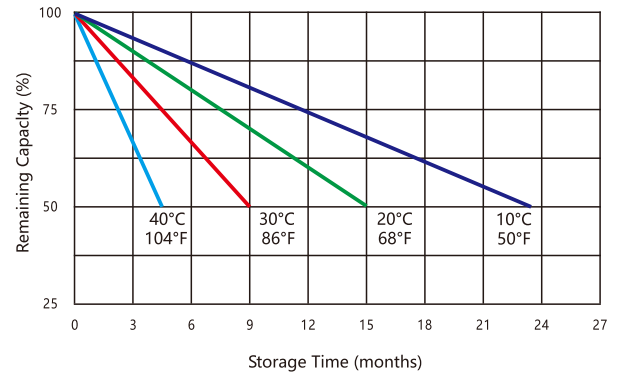
Charging Characteristics@25°C(77°F)



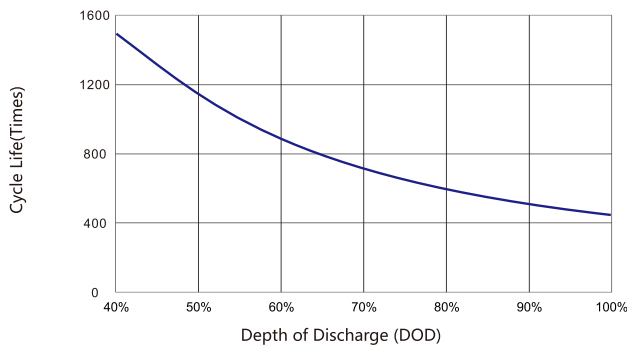
Capacity vs Temperature



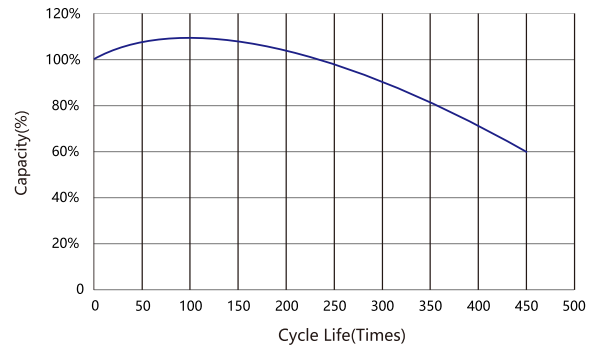
Self-discharge vs Time



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 current: $\leq 0.18C_A$

Limited Voltage

14.6V~14.8V @25°C(77°F)
Temp.Coefficient:-24mV/°C

Floating Voltage

13.6V~13.8V @25°C(77°F)
Temp.Coefficient:-18mV/°C