

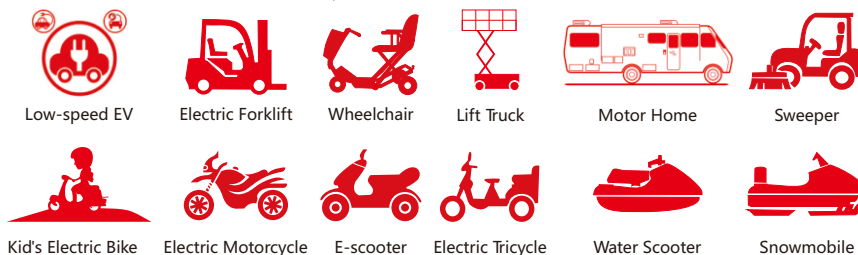
TNE 12-25E [12V25Ah]



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 Specifications

Model	Dimensions (mm/inch)				Weight (kg/lbs)	Terminal	Container
TNE12-25	Length	Width	Height	Total Height	6.10/13.45	I10	ABS UL94-HB (Optional: FR ABS UL94-V0)
	181/7.13	77/3.03	169/6.65	170/6.69			

Product Specifications

Nominal Voltage	Rated Capacity ^{25°C/77°C}	Operating Temp. Range	Capacity Effected Temp	Capacity vs Storage Time
12V	25Ah 20hr Rate (1.80V/cell) 23.2Ah 10hr Rate (1.75V/cell) 22.6Ah 5hr Rate (1.75V/cell) 20.0Ah 2hr 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	28.2	20.1	15.9	9.10	6.38	4.93	4.09	3.49	2.72	2.22	1.21
1.80V/cell	29.1	20.6	16.4	9.41	6.52	5.09	4.26	3.62	2.79	2.27	1.25
1.75V/cell	30.0	21.5	17.0	10.0	6.87	5.27	4.52	3.80	2.87	2.32	1.27
1.70V/cell	30.7	22.0	17.6	10.2	7.01	5.45	4.56	3.87	2.94	2.38	1.30
1.67V/cell	31.4	22.7	18.2	10.3	7.11	5.59	4.70	3.95	3.01	2.42	1.31
1.60V/cell	32.2	23.3	18.6	10.6	7.36	5.74	4.76	4.05	3.08	2.50	1.32

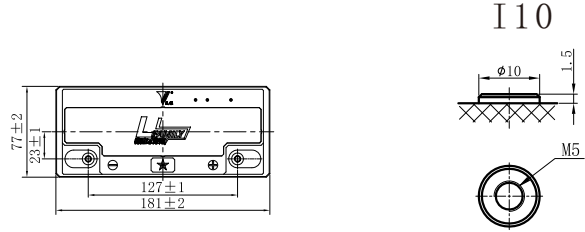
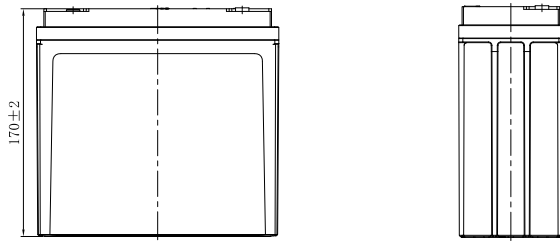
Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	55.0	39.5	31.5	18.1	12.8	9.93	8.25	7.04	5.50	4.49	2.46
1.80V/cell	56.6	40.4	32.3	18.7	13.0	10.2	8.54	7.29	5.63	4.59	2.53
1.75V/cell	58.0	42.0	33.5	19.8	13.7	10.5	9.05	7.61	5.77	4.67	2.57
1.70V/cell	59.2	42.7	34.3	20.0	13.9	10.8	9.07	7.71	5.88	4.76	2.62
1.67V/cell	60.0	43.8	35.4	20.1	14.0	11.0	9.28	7.83	5.96	4.81	2.63
1.60V/cell	61.1	44.6	35.7	20.6	14.3	11.2	9.33	7.96	6.07	4.93	2.64

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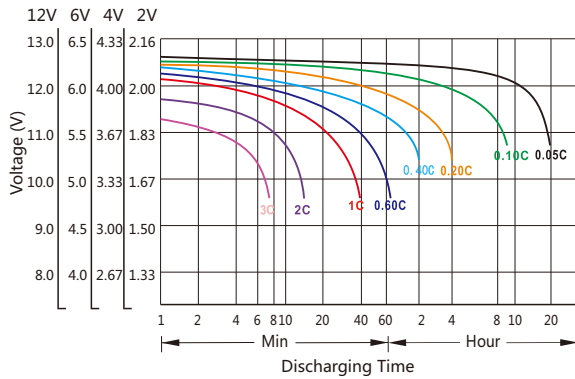


Battery Dimensions(mm)

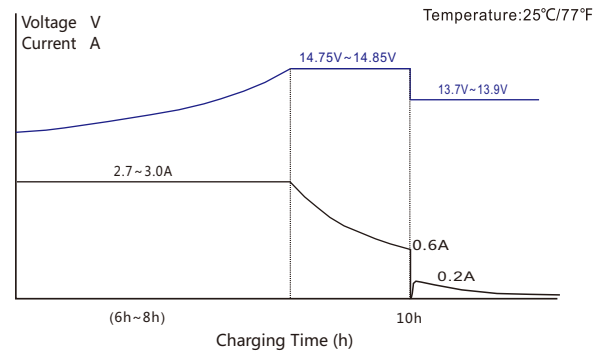


Electrical Characteristics

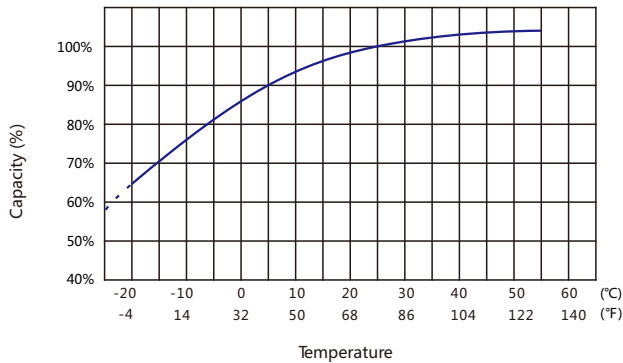
Discharging Characteristics@25°C(77°F)



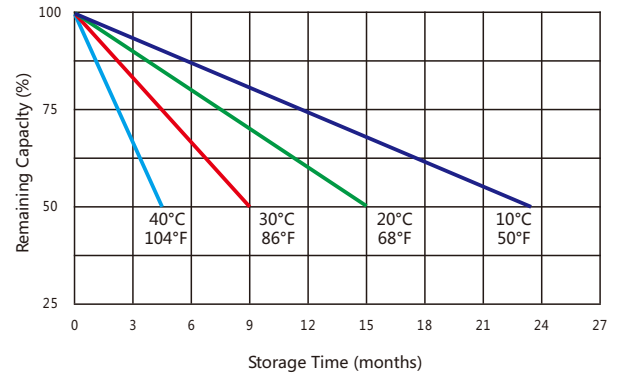
Charging Characteristics@25°C(77°F)



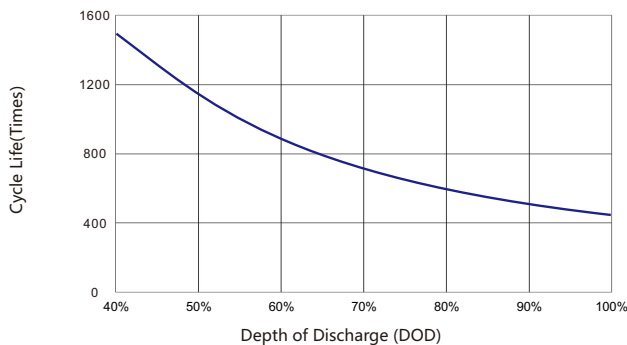
Capacity vs Temperature



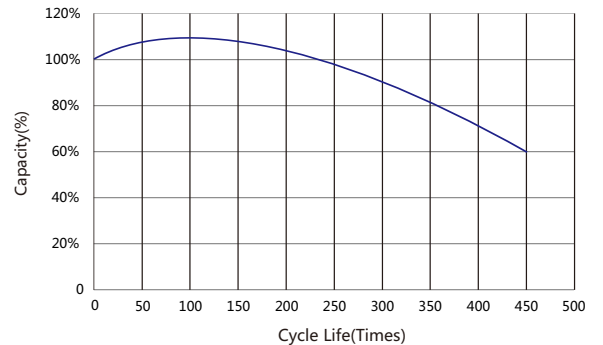
Self-discharge vs Time



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 : $\leq 0.2C_2A$

Limited Voltage

14.75V~14.85V@25°C(77°F)
Temp.Coefficient:-24mV/°C

Floating Voltage

13.7V~13.9V@25°C(77°F)
Temp.Coefficient:-18mV/°C