

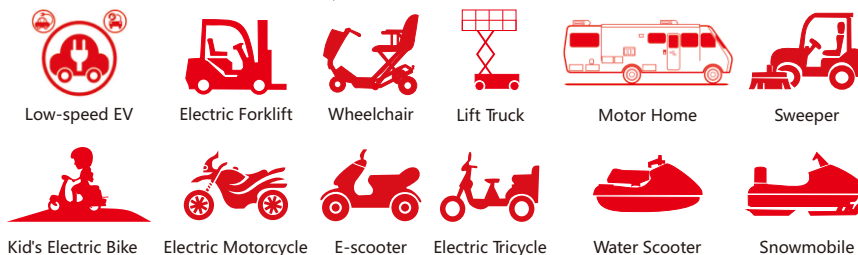
TNE 12-15E [12V15Ah]



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
TNE12-15	Length	Width	Height	Total Height	3.90/8.60	T2-1	ABS UL94-HB (Optional: FR ABS UL94-V0)
	151/5.94	99/3.90	98/3.86	104/4.09			

Product Specifications

Nominal Voltage	Rated Capacity ^{25°C/77°C}	Operating Temp. Range	Capacity Effected Temp	Capacity vs Storage Time
12V	15.0Ah 20hr Rate (1.80V/cell) 13.9Ah 10hr Rate (1.75V/cell) 13.6Ah 5hr Rate (1.75V/cell) 12.0Ah 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	16.9	12.1	9.56	5.46	3.83	2.96	2.45	2.09	1.63	1.33	0.73
1.80V/cell	17.5	12.4	9.84	5.65	3.91	3.05	2.55	2.17	1.67	1.36	0.75
1.75V/cell	18.0	12.9	10.2	6.00	4.12	3.16	2.71	2.28	1.72	1.39	0.76
1.70V/cell	18.4	13.2	10.5	6.11	4.21	3.27	2.74	2.32	1.76	1.43	0.78
1.67V/cell	18.8	13.6	10.9	6.17	4.27	3.35	2.82	2.37	1.80	1.45	0.79
1.60V/cell	19.3	14.0	11.1	6.37	4.42	3.45	2.86	2.43	1.85	1.50	0.79

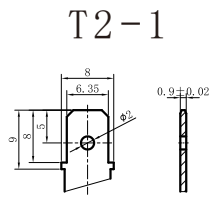
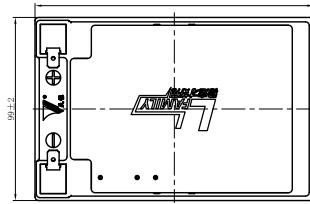
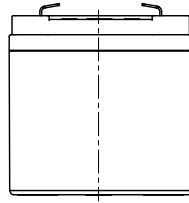
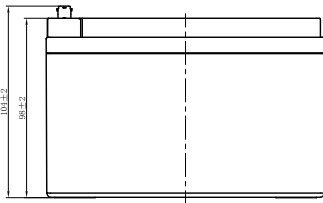
Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	33.0	23.7	18.9	10.9	7.67	5.96	4.95	4.23	3.30	2.70	1.48
1.80V/cell	34.0	24.3	19.4	11.2	7.81	6.12	5.13	4.37	3.38	2.75	1.52
1.75V/cell	34.8	25.2	20.1	11.9	8.20	6.31	5.43	4.56	3.46	2.80	1.54
1.70V/cell	35.5	25.6	20.6	12.0	8.32	6.49	5.44	4.63	3.53	2.86	1.57
1.67V/cell	36.0	26.3	21.2	12.1	8.39	6.61	5.57	4.70	3.58	2.89	1.58
1.60V/cell	36.6	26.8	21.4	12.4	8.60	6.74	5.60	4.77	3.64	2.96	1.58

TNE 12-15E [12V15Ah]

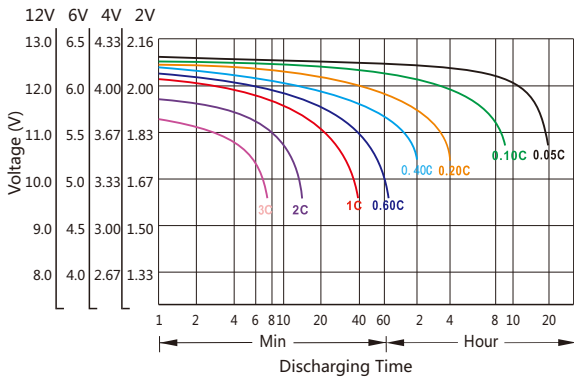


Battery Dimensions(mm)

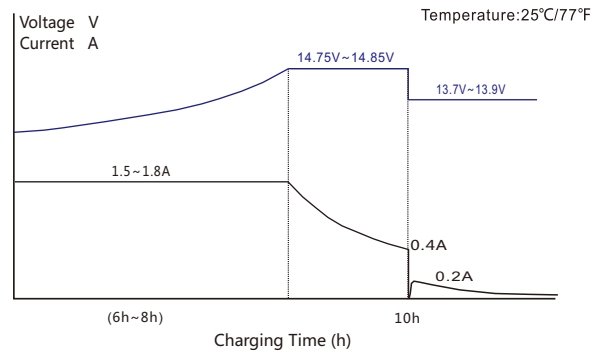


Electrical Characteristics

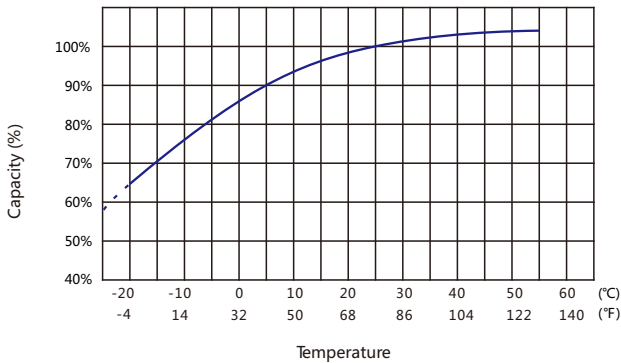
Discharging Characteristics@25°C(77°F)



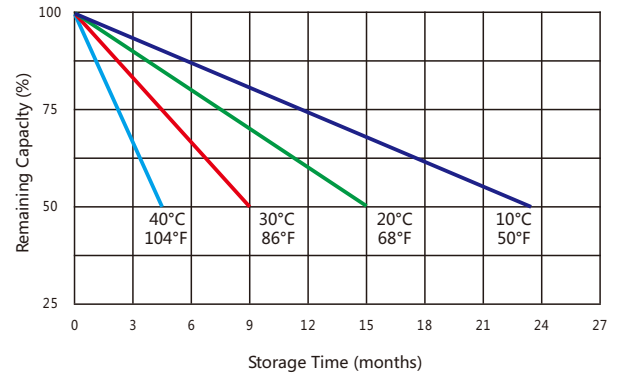
Charging Characteristics@25°C(77°F)



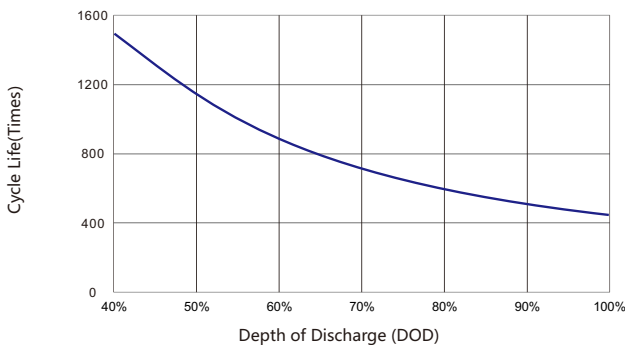
Capacity vs Temperature



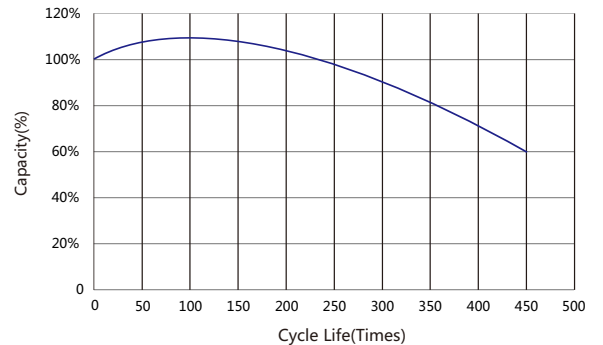
Self-discharge vs Time



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