

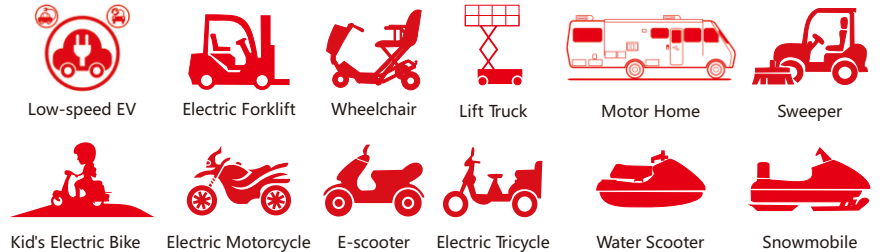
TNE 12-35B [12V35Ah]



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
TNE12-35B	Length	Width	Height	Total Height	9.45/20.8	110	ABS UL94-HB (Optional: FR ABS UL94-V0)
	175/6.89	166/6.54	121/4.76	125/4.92			

Product Specifications

Nominal Voltage	Rated Capacity ^{25°C/77°C}	Operating Temp. Range	Capacity Effected Temp	Capacity vs Storage Time
12V	35Ah 20hr Rate (1.80V/cell) 32.4Ah 10hr Rate (1.75V/cell) 31.7Ah 5hr Rate (1.75V/cell) 28.0Ah 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	39.4	28.1	22.3	12.7	8.93	6.90	5.73	4.88	3.80	3.10	1.69
1.80V/cell	40.7	28.9	23.0	13.2	9.12	7.12	5.96	5.06	3.91	3.18	1.75
1.75V/cell	41.9	30.1	23.8	14.0	9.61	7.38	6.33	5.31	4.02	3.24	1.78
1.70V/cell	43.0	30.8	24.6	14.2	9.81	7.63	6.38	5.42	4.12	3.33	1.82
1.67V/cell	43.9	31.8	25.5	14.4	9.95	7.82	6.57	5.54	4.21	3.38	1.84
1.60V/cell	45.1	32.7	26.0	14.9	10.30	8.04	6.66	5.67	4.31	3.50	1.85

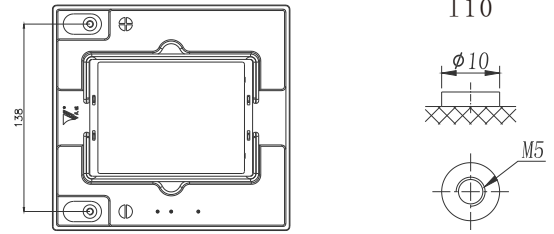
Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	77.0	55.3	44.1	25.4	17.9	13.9	11.55	9.86	7.70	6.29	3.45
1.80V/cell	79.3	56.6	45.2	26.2	18.2	14.3	11.96	10.20	7.88	6.43	3.55
1.75V/cell	81.3	58.8	46.8	27.7	19.1	14.7	12.66	10.65	8.08	6.53	3.60
1.70V/cell	82.9	59.8	48.1	28.0	19.4	15.1	12.70	10.80	8.23	6.67	3.67
1.67V/cell	83.9	61.3	49.5	28.1	19.6	15.4	12.99	10.96	8.35	6.73	3.68
1.60V/cell	85.5	62.5	50.0	28.8	20.1	15.7	13.06	11.14	8.50	6.90	3.70

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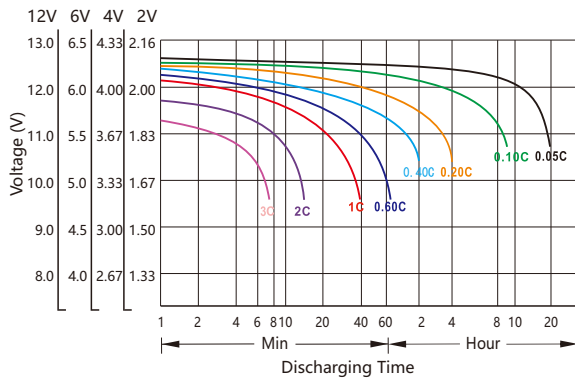


Battery Dimensions(mm)

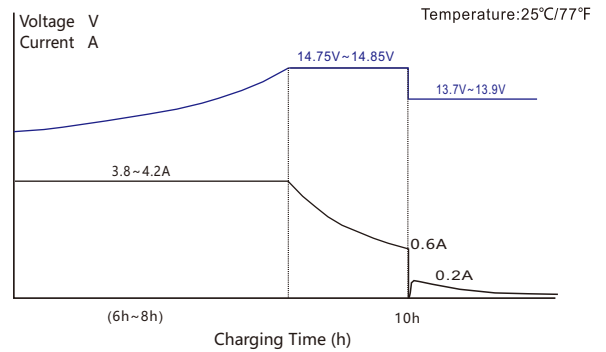


Electrical Characteristics

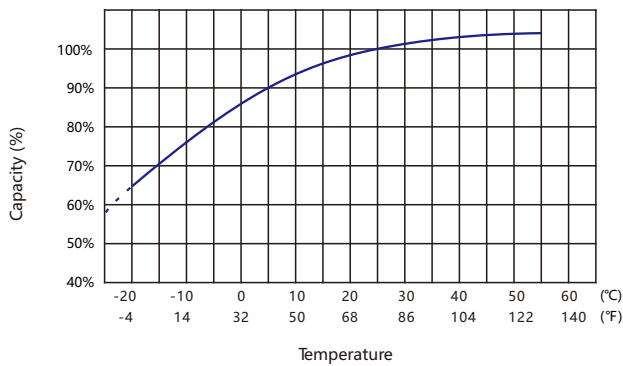
Discharging Characteristics@25°C(77°F)



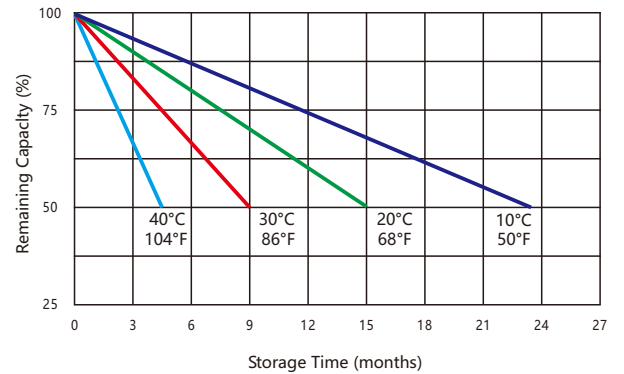
Charging Characteristics@25°C(77°F)



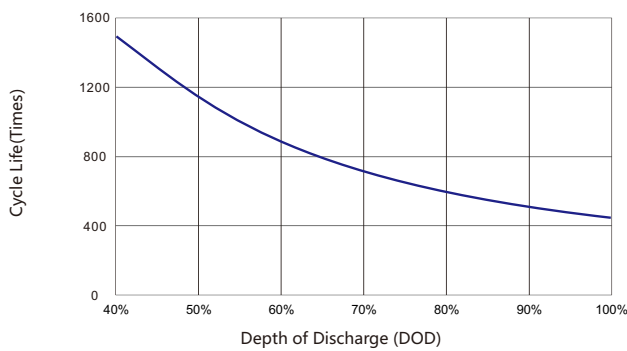
Capacity vs Temperature



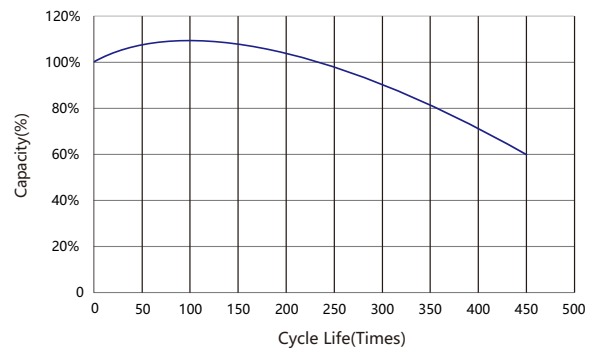
Self-discharge vs Time



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 Voltage	Floating Voltage
Limited current: $\leq 0.2C_2A$	14.75V~14.85V@25°C(77°F) Temp.Coefficient:-24mV/°C	13.7V~13.9V@25°C(77°F) Temp.Coefficient:-18mV/°C