

TNE12-38[12V38Ah]



Product Features

Deep Cycle High Power Series 400~600 Cycle Times @100%DOD

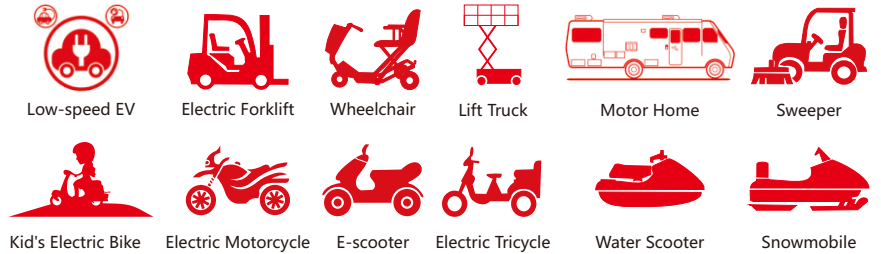
↑10%W/2hr
Discharging Power
High Rate Formula

>40Wh/kg
Energy Density
Special Paste Formula

↑40%
Power Output Area
High Density Grouping

↓50%
Grid Corrosion
Rare-earth patent alloy

Product Applications



Physical Specifications

Model	Dimensions (mm/inch)				Weight (kg/lbs)	Terminal	Container
	Length	Width	Height	Total Height			
TNE12-38	267/10.51	77/3.03	171/6.73	171/6.73	9.2/20.28	I10	ABS UL94-HB (Optional: FR ABS UL94-V0)

Product Specifications

Nominal Voltage	Rated Capacity 25°C/77°C	Operating Temp. Range	Capacity Effected Temp	Capacity vs Storage Time
38V	38.0Ah 20hr Rate (1.80V/cell) 36.4Ah 10hr Rate (1.80V/cell) 35.2Ah 5hr Rate (1.75V/cell) 32.6Ah 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	44.82	36.67	26.75	15.31	10.62	8.57	6.94	5.81	4.40	3.56	1.86
1.80V/cell	45.92	37.37	27.23	15.54	10.75	8.66	7.00	5.87	4.46	3.61	1.90
1.75V/cell	46.87	38.08	27.68	15.71	10.86	8.72	7.05	5.91	4.48	3.63	1.91
1.70V/cell	47.70	38.62	28.03	15.88	10.92	8.77	7.08	5.94	4.50	3.64	1.92
1.67V/cell	48.58	39.22	28.38	16.00	10.97	8.80	7.10	5.95	4.51	3.65	1.92
1.60V/cell	49.83	39.83	28.63	16.23	11.03	8.84	7.12	5.97	4.53	3.65	1.92

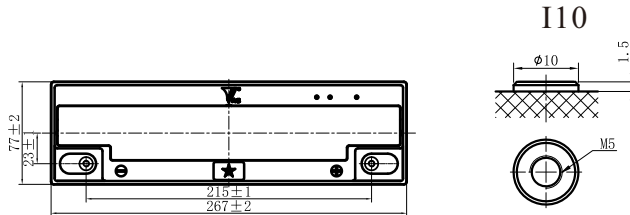
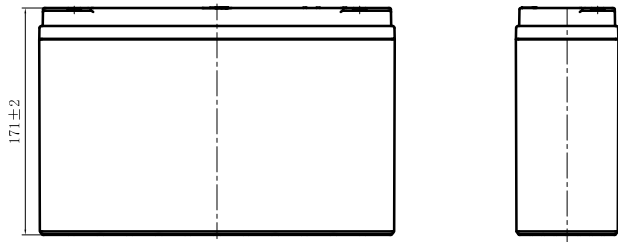
Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	88.30	72.70	53.24	30.63	22.18	17.16	13.89	11.64	8.81	7.12	3.73
1.80V/cell	90.40	74.05	54.18	31.08	22.47	17.32	14.01	11.75	8.92	7.22	3.80
1.75V/cell	92.21	75.42	55.01	31.41	22.71	17.43	14.08	11.82	8.95	7.25	3.81
1.70V/cell	93.75	76.43	55.68	31.71	22.84	17.51	14.14	11.86	8.99	7.27	3.83
1.67V/cell	95.36	77.52	56.33	31.90	22.93	17.55	14.16	11.88	9.00	7.28	3.83
1.60V/cell	97.64	78.61	56.76	32.32	23.03	17.60	14.18	11.90	9.02	7.29	3.82

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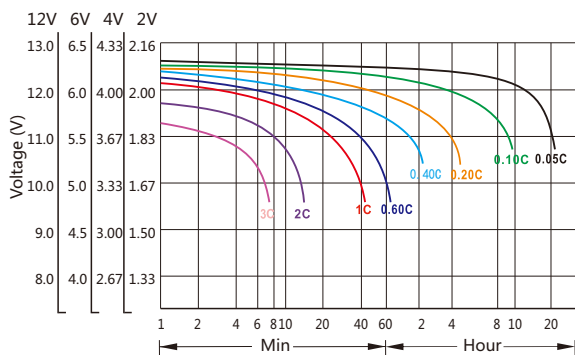


Battery Dimensions(mm)

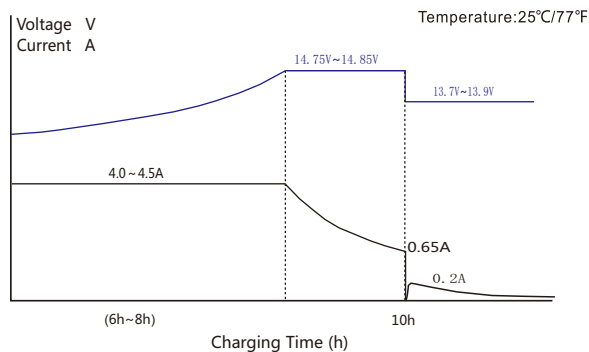


Electrical Characteristics

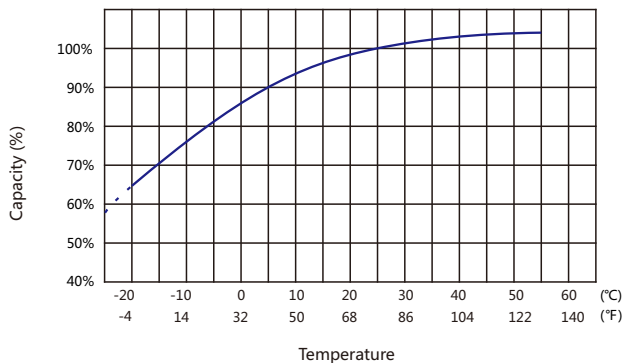
Discharging Characteristics@25°C(77°F)



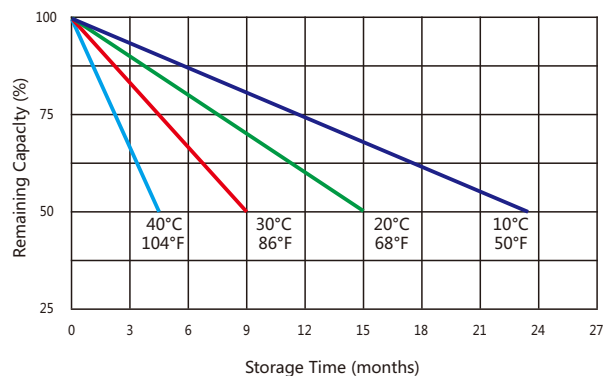
Charging Characteristics@25°C(77°F)



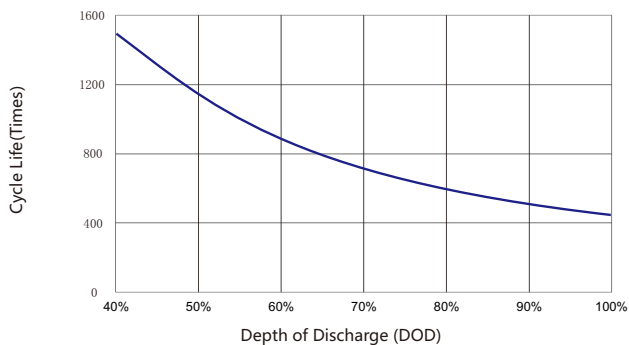
Capacity vs Temperature



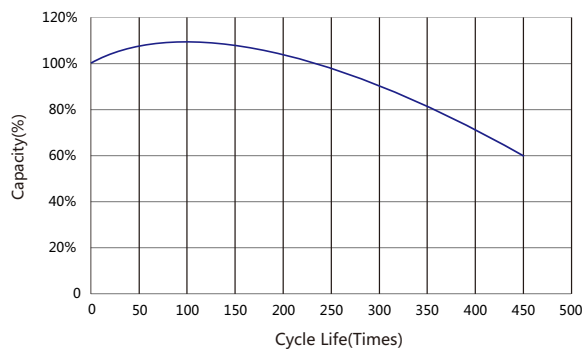
Self-discharge vs Time



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 : $\leq 0.12CA$	14.75V~14.85V@25°C(77°F) Temp.Coefficient:-24mV/°C	13.7V~13.9V@25°C(77°F) Temp.Coefficient:-18mV/°C