

TNE12-15 [12V15Ah]



Product Features

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

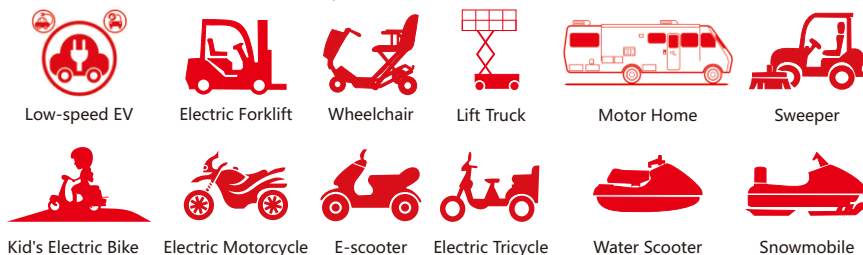
↑10%W/2hr
Discharging Power
High Rate Formula

>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
TNE12-15	Length	Width	Height	Total Height	4.10/9.04	T2-1	ABS UL94-HB (Optional: FR ABS UL94-V0)
	151/5.94	99/3.89	98/3.85	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)	Discharge:-15°C~50°C (5°F~122°F)	40°C (104°F):106%	Three months : 90% Six months : 80% Nine months : 60%
	14.3Ah 10hr Rate (1.80V/cell)	Charge:0°C~40°C (32°F~104°F)	25°C (77°F):100%	
	13.9Ah 5hr Rate (1.75V/cell)	Storage:-15°C~40°C (5°F~104°F)	0°C (32°F):85%	
	12.4Ah 3hr Rate (1.75V/cell)	Optimum:25°C±2°C (77°F±5°F)	-15°C (5°F):72%	

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	17.7	14.5	10.6	6.05	4.38	3.38	2.74	2.29	1.74	1.40	0.74
1.80V/cell	18.1	14.8	10.8	6.14	4.44	3.42	2.76	2.32	1.76	1.43	0.75
1.75V/cell	18.5	15.0	10.9	6.20	4.49	3.44	2.78	2.33	1.77	1.43	0.75
1.70V/cell	18.8	15.2	11.1	6.27	4.52	3.46	2.80	2.35	1.78	1.44	0.76
1.67V/cell	19.2	15.5	11.2	6.32	4.54	3.47	2.80	2.35	1.78	1.44	0.76
1.60V/cell	19.7	15.7	11.3	6.41	4.57	3.49	2.81	2.36	1.79	1.44	0.76

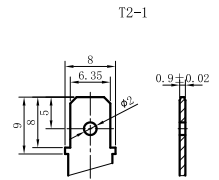
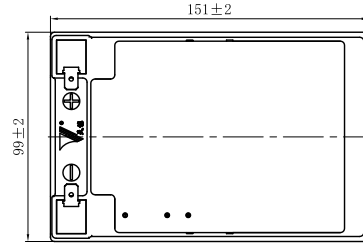
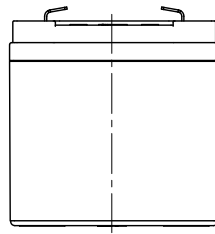
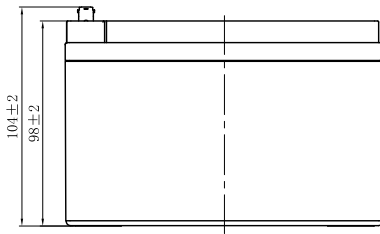
Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	34.9	28.7	21.0	12.1	8.76	6.77	5.48	4.59	3.48	2.81	1.47
1.80V/cell	35.7	29.2	21.4	12.3	8.87	6.84	5.53	4.64	3.52	2.85	1.50
1.75V/cell	36.4	29.8	21.7	12.4	8.96	6.88	5.56	4.66	3.53	2.86	1.50
1.70V/cell	37.0	30.2	22.0	12.5	9.02	6.91	5.58	4.68	3.55	2.87	1.51
1.67V/cell	37.6	30.6	22.2	12.6	9.05	6.93	5.59	4.69	3.55	2.87	1.51
1.60V/cell	38.5	31.0	22.4	12.8	9.09	6.95	5.60	4.70	3.56	2.88	1.51

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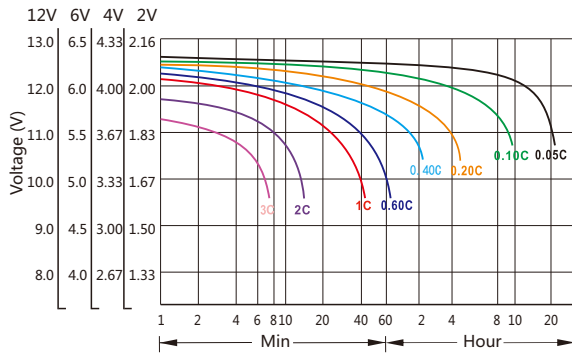


Battery Dimensions(mm)

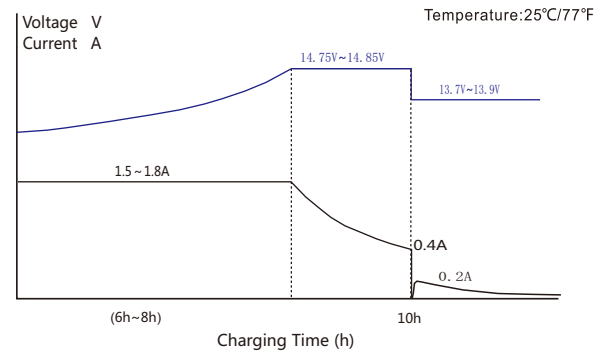


Electrical Characteristics

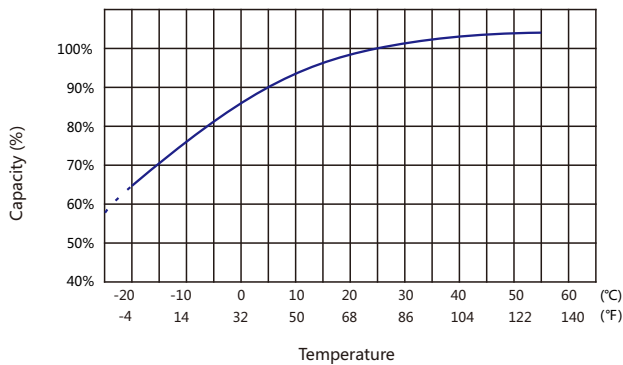
Discharging Characteristics@25°C(77°F)



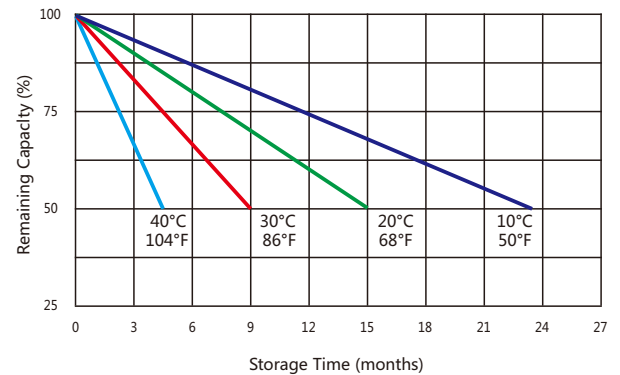
Charging Characteristics@25°C(77°F)



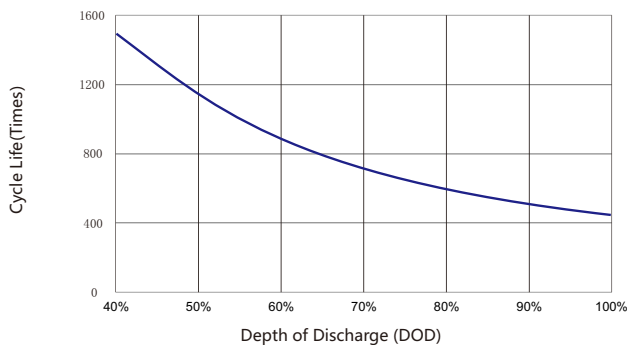
Capacity vs Temperature



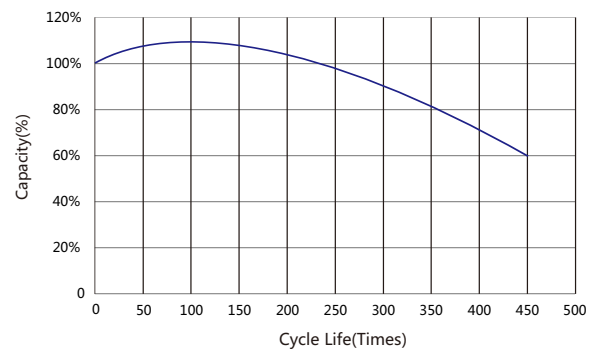
Self-discharge vs Time



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 : ≤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