

TNE12-58[12V58Ah]



Product Features

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

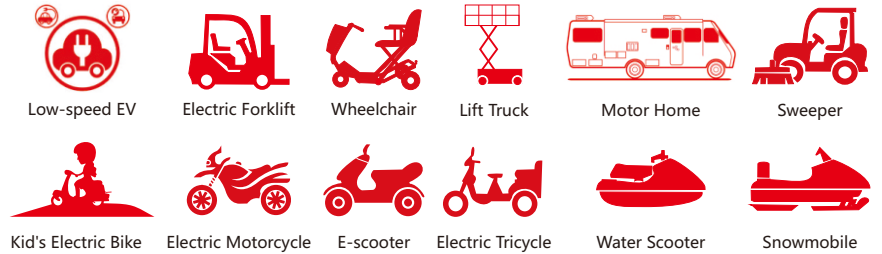
↑10%W/2hr
Discharging Power
High Rate Formula

>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
TNE12-58V	Length	Width	Height	Total Height	14.10/31.09	I1	ABS UL94-HB (Optional: FR ABS UL94-V0)
	224/8.81	135/5.31	175/6.88	175/6.88			

Product Specifications

Nominal Voltage	Rated Capacity 25°C/77°C	Operating Temp. Range	Capacity Effected Temp	Capacity vs Storage Time
58V	58.0Ah 20hr Rate (1.80V/cell) 55.7Ah 10hr Rate (1.80V/cell) 54.3Ah 5hr Rate (1.75V/cell) 52.6Ah 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	69.1	56.6	41.3	23.6	17.09	13.22	10.70	8.96	6.79	5.48	2.87
1.80V/cell	70.8	57.6	42.0	24.0	17.33	13.35	10.80	9.06	6.87	5.57	2.90
1.75V/cell	72.3	58.7	42.7	24.2	17.52	13.45	10.86	9.12	6.91	5.59	2.94
1.70V/cell	73.6	59.6	43.2	24.5	17.64	13.52	10.92	9.16	6.94	5.62	2.95
1.67V/cell	74.9	60.5	43.8	24.7	17.74	13.57	10.95	9.18	6.96	5.63	2.95
1.60V/cell	76.8	61.4	44.1	25.0	17.84	13.63	10.98	9.21	6.98	5.63	2.95

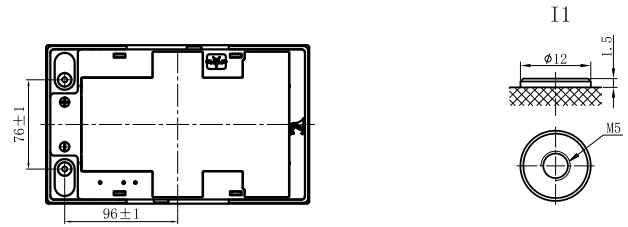
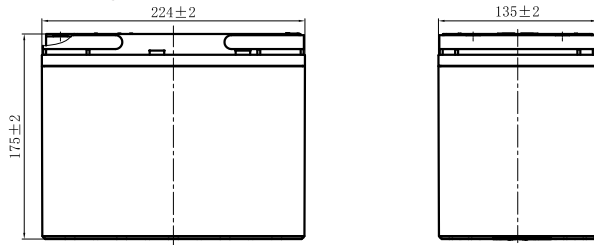
Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	136.2	112.1	82.10	47.23	34.21	26.47	21.42	17.94	13.59	10.98	5.75
1.80V/cell	139.4	114.2	83.54	47.93	34.66	26.71	21.60	18.13	13.76	11.14	5.80
1.75V/cell	142.2	116.3	84.83	48.44	35.02	26.89	21.71	18.22	13.81	11.18	5.88
1.70V/cell	144.6	117.9	85.87	48.90	35.22	27.00	21.80	18.29	13.86	11.21	5.90
1.67V/cell	147.1	119.5	86.86	49.20	35.36	27.06	21.84	18.32	13.88	11.23	5.90
1.60V/cell	150.6	121.2	87.53	49.85	35.51	27.13	21.87	18.35	13.91	11.24	5.90

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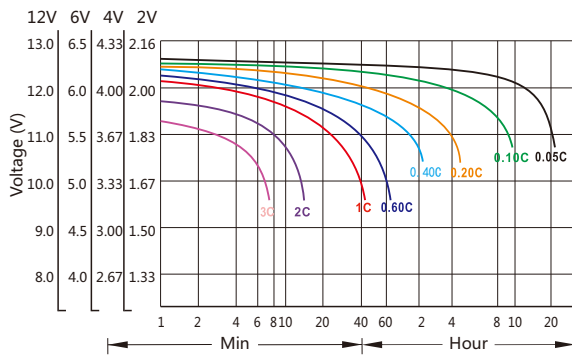


Battery Dimensions(mm)

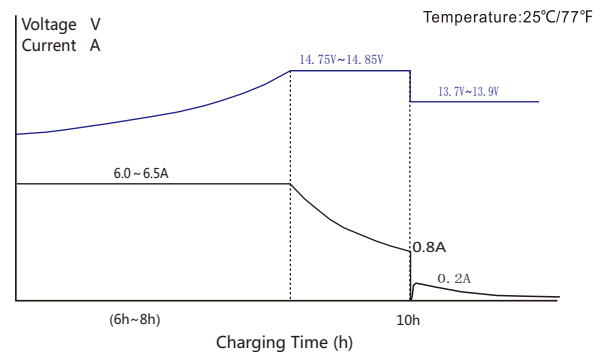


Electrical Characteristics

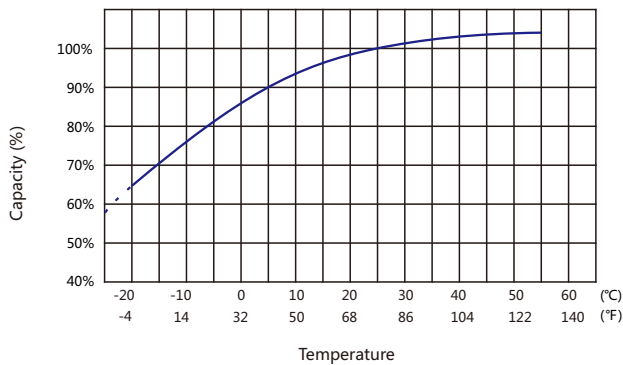
Discharging Characteristics@25°C(77°F)



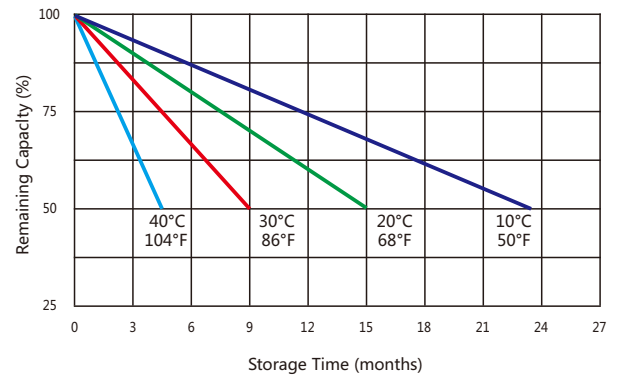
Charging Characteristics@25°C(77°F)



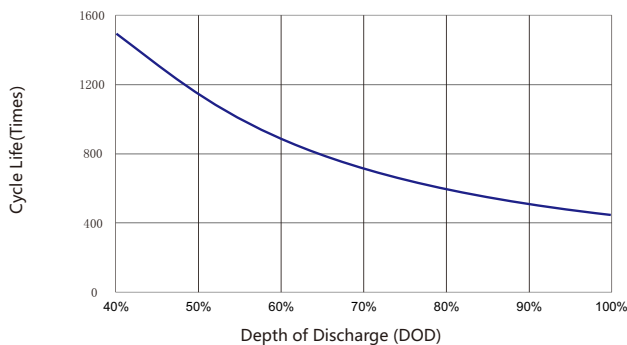
Capacity vs Temperature



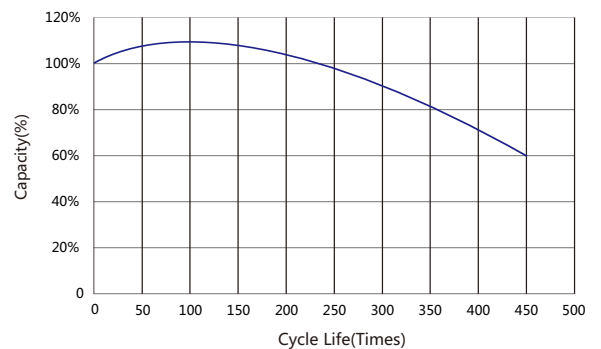
Self-discharge vs Time



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