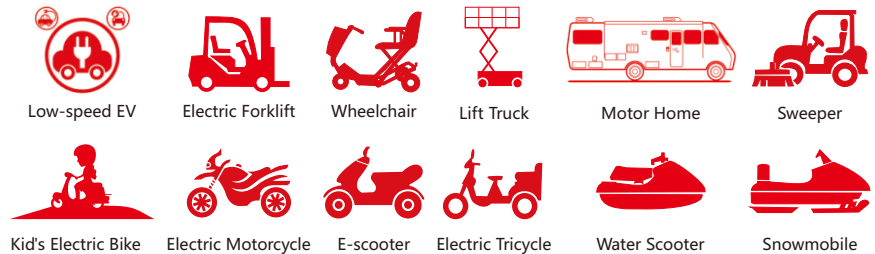


Product Features

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 Specification

Model	Dimensions (mm/inch)				Weight (±5%kg/lbs)	Terminal	Container
TNE12-100	Length	Width	Height	Total Height	25.1/55.3	I3	ABS UL94-HB (Optional: FR ABS UL94-V0)
	259/10.2	170/6.69	210/8.27	210/8.27			

Product Specifications

Nominal Voltage	Rated Capacity ^{25°C/77°F}	Operating Temp.Range	Capacity Effected Temp	Capacity vs Storage Time
12V	100Ah 20hr Rate (1.80V/cell) 90Ah 10hr Rate (1.75V/cell) 85Ah 5hr Rate (1.75V/cell) 80Ah 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%

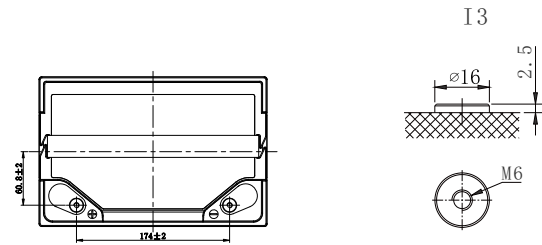
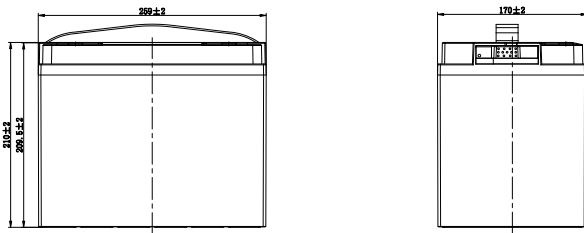
Constant Current Discharge (A)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	107	76.4	61.2	35.0	24.8	19.6	16.0	13.6	10.5	8.60	4.84
1.80V/cell	111	78.7	63.1	36.2	25.7	20.2	16.6	14.1	10.8	8.82	5.00
1.75V/cell	114	81.6	65.4	38.5	26.7	20.9	17.0	14.4	11.1	9.00	5.10
1.70V/cell	117	83.7	67.7	39.1	27.3	21.6	17.7	15.1	11.4	9.23	5.21
1.67V/cell	119	86.4	70.1	39.6	27.6	21.8	18.1	15.2	11.6	9.39	5.26
1.60V/cell	122	88.9	71.5	40.9	28.6	22.4	18.5	15.6	11.9	9.70	5.30

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

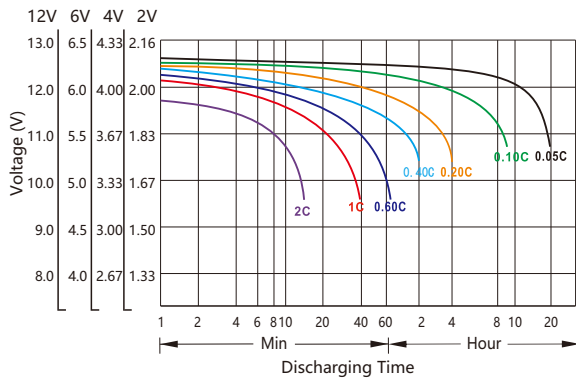
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	209	150	121	69.8	49.7	39.4	32.3	27.5	21.3	17.4	9.84
1.80V/cell	216	154	124	71.9	51.3	40.4	33.4	28.4	21.8	17.8	10.1
1.75V/cell	221	160	129	76.2	53.1	41.7	34.0	28.9	22.3	18.1	10.3
1.70V/cell	225	163	132	77.0	53.9	42.9	35.2	30.1	22.8	18.5	10.5
1.67V/cell	228	166	136	77.4	54.3	43.0	35.8	30.1	23.1	18.7	10.5
1.60V/cell	232	170	137	79.2	55.7	43.9	36.3	30.7	23.5	19.1	10.6

Battery Dimensions(mm)

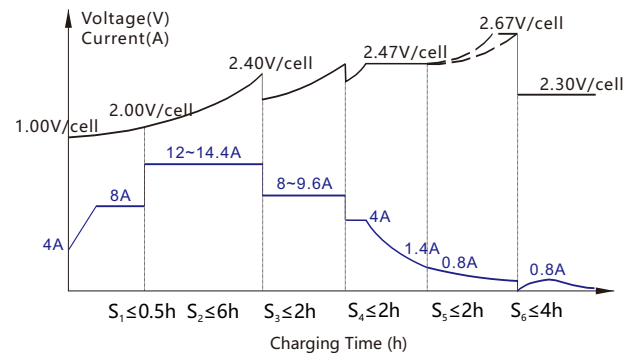


Electrical Characteristics

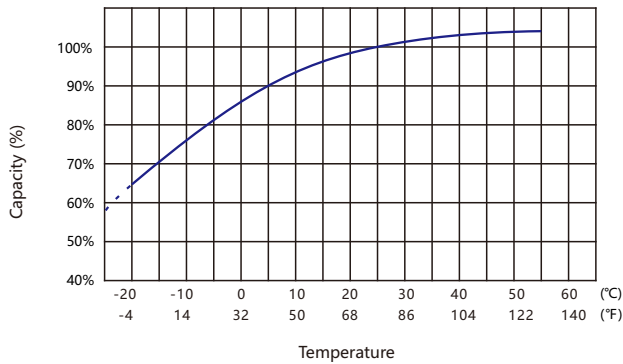
Discharging Characteristics@25°C(77°F)



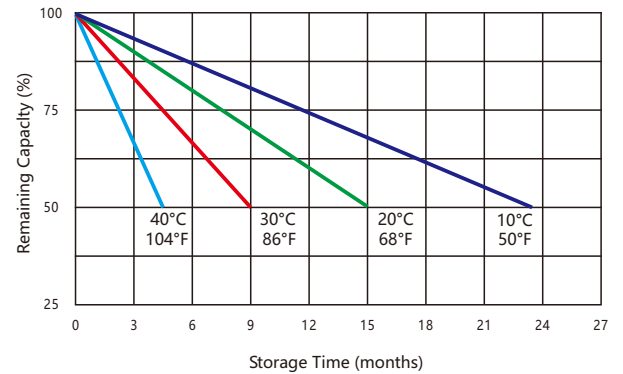
Charging Characteristics@25°C(77°F)



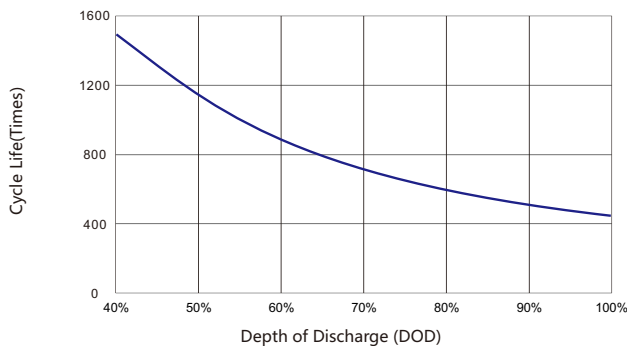
Capacity vs Temperature



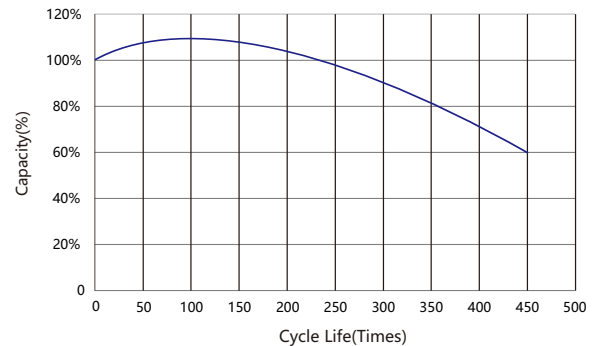
Self-discharge vs Time



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: $\leq 0.2C_5A$	14.4V~14.8V@25°C(77°F) Temp.Coefficient:-24mV/°C	13.5V~13.8V@25°C(77°F) Temp.Coefficient:-18mV/°C