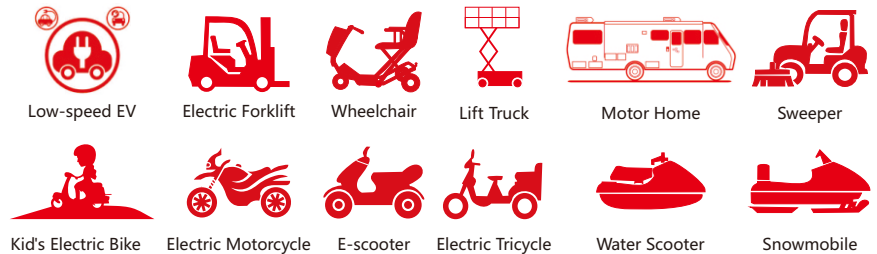




Product Features

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
TNE8-180	Length	Width	Height	Total Height	33.5/73.87	17	ABS UL94-HB (Optional: FR ABS UL94-V0)
	262/10.3	182/7.17	280/11.0	280/11.0			

Product Specifications

Nominal Voltage	Rated Capacity 25°C/77°C	Operating Temp. Range	Capacity Effected Temp	Capacity vs Storage Time
8V	180Ah 20hr Rate (1.80V/cell) 165Ah 10hr Rate (1.75V/cell) 158Ah 5hr Rate (1.75V/cell) 150Ah 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):65%	Three months : 90% Six months : 80% Nine months : 60%

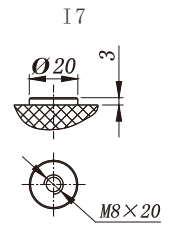
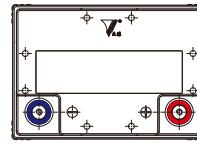
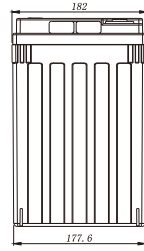
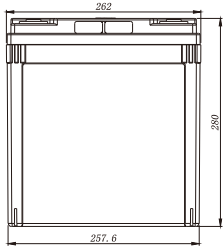
Constant Current Discharge (A)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	193.0	137.5	110.2	63.0	46.4	36.38	29.63	25.13	19.29	15.75	8.70
1.80V/cell	199.8	141.6	113.6	65.2	48.2	37.49	30.77	26.05	19.87	16.17	9.00
1.75V/cell	205.2	146.9	117.7	69.3	50.0	38.84	31.53	26.65	20.45	16.53	9.17
1.70V/cell	210.2	150.7	121.9	70.4	51.1	40.10	32.72	27.83	20.93	16.94	9.38
1.67V/cell	214.6	155.5	126.2	71.2	51.8	40.49	33.39	28.01	21.35	17.21	9.46
1.60V/cell	220.3	160.1	128.7	73.5	53.6	41.69	34.15	28.81	21.86	17.74	9.53

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

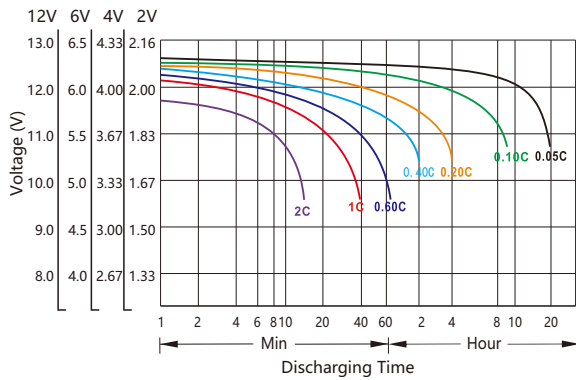
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	376.9	270.5	217.9	125.6	93.1	73.2	59.8	50.8	39.09	31.94	17.72
1.80V/cell	388.7	277.5	223.8	129.4	96.2	75.2	61.8	52.5	40.10	32.70	18.24
1.75V/cell	397.7	287.2	231.4	137.2	99.5	77.5	63.1	53.4	41.10	33.28	18.53
1.70V/cell	405.3	292.5	238.0	138.5	101.2	79.6	65.1	55.4	41.85	33.93	18.86
1.67V/cell	410.4	299.6	245.0	139.3	101.8	79.9	66.0	55.4	42.34	34.24	18.91
1.60V/cell	417.8	306.2	247.4	142.6	104.4	81.6	66.9	56.6	43.07	35.02	19.01

Battery Dimensions(mm)

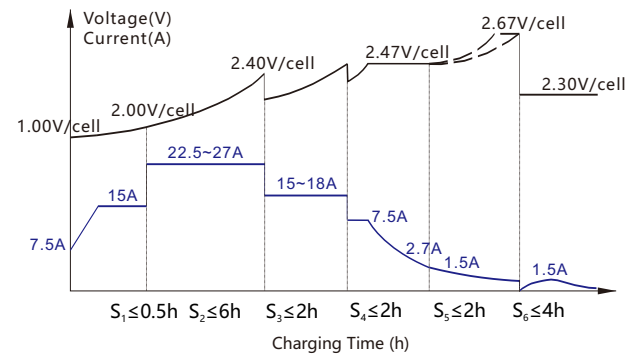


Electrical Characteristics

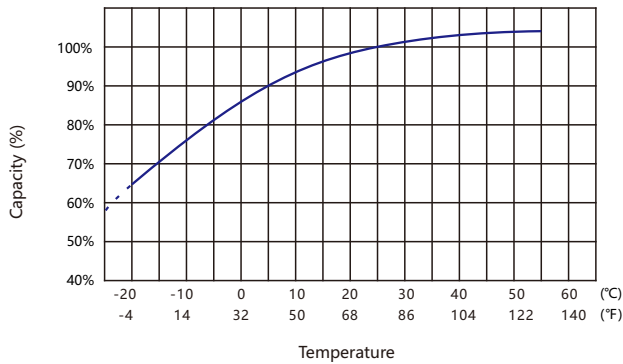
Discharging Characteristics@25°C(77°F)



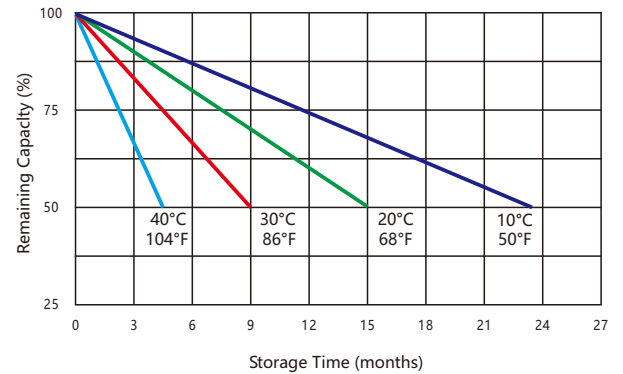
Charging Characteristics@25°C(77°F)



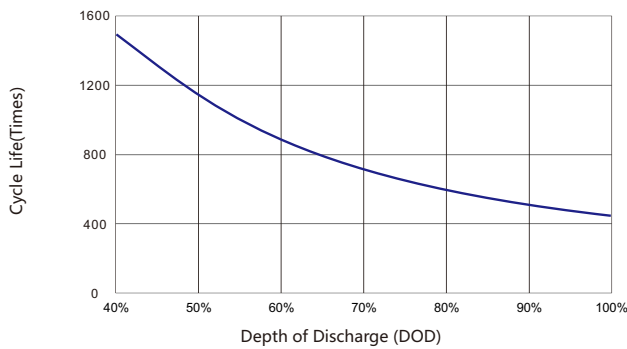
Capacity vs Temperature



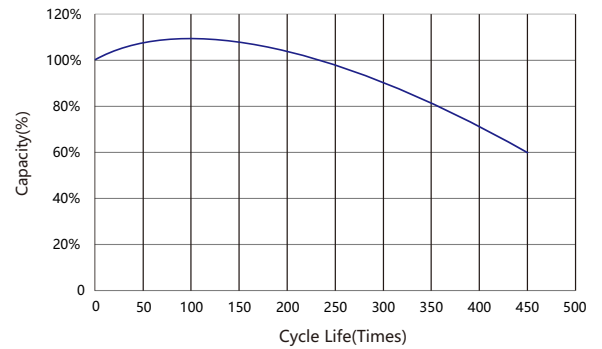
Self-discharge vs Time



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 current: $\leq 0.2C_3A$

Limited Voltage

9.60V~9.87V@25°C(77°F)
Temp.Coefficient:-16mV/°C

Floating Voltage

9.00V~9.20V@25°C(77°F)
Temp.Coefficient:-12mV/°C