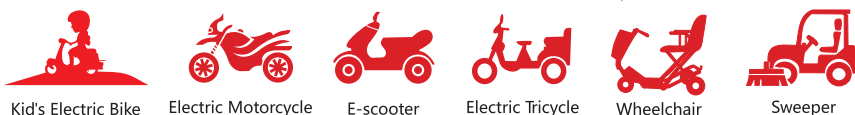




## Product Features

Deep Cycle Long Life Series 500~600 Cycle Times @100%DOD		
<b>↑10% Capacity</b> Improve the content and utilization of active substances, Direct Bar-welding	Carbon Fiber	Rare-earth alloy
	<b>↑15% Discharge Power</b> Positive Carbon Fiber	<b>↓50% Grid Corrosion</b> Rare-earth patent alloy

## Product Applications



## Physical Specification

Model	Dimensions (mm/inch)				Weight(kg/lbs) ±3%	Terminal	Container
TNEP12-130	Length	Width	Height	Total Height	34.0/75.0	I7	ABS UL94-HB (Optional: FR ABS UL94-V0)
	330/13.0	171/6.73	222/8.74	222/8.74			

## Product Specifications

Nominal Voltage	Rated Capacity 25°C/77°F	Operating Temp. Range	Capacity Effected Temp	Capacity vs Storage Time (25°C/77°F)
12V	130Ah 20hr Rate (1.80V/cell) 126Ah 10hr Rate (1.75V/cell) 120Ah 5hr Rate (1.75V/cell) 107Ah 3hr Rate (1.75V/cell)	Discharge: -15~50°C (5~122°F) Charge: 0~40°C (32~104°F) Storage: -15~40°C (5~104°F) Optimum: 25±3°C (77±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%

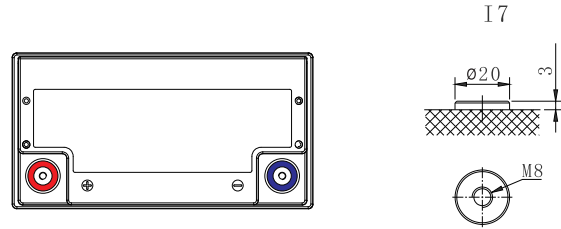
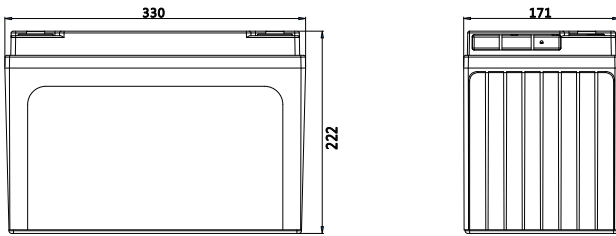
## Constant Current Discharge (A)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	139	99.3	79.6	45.5	33.1	26.0	22.5	19.1	14.7	12.0	6.29
1.80V/cell	144	102	82.0	47.1	34.4	26.8	23.4	19.8	15.1	12.3	6.50
1.75V/cell	148	106	85.0	50.1	35.7	27.8	24.0	20.2	15.5	12.6	6.62
1.70V/cell	152	109	88.0	50.8	36.5	28.7	24.8	21.2	15.9	12.9	6.77
1.68V/cell	155	112	91.1	51.4	36.9	29.0	25.4	21.3	16.2	13.1	6.83
1.60V/cell	159	116	93.0	53.1	38.2	29.8	25.9	21.9	16.6	13.5	6.88

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

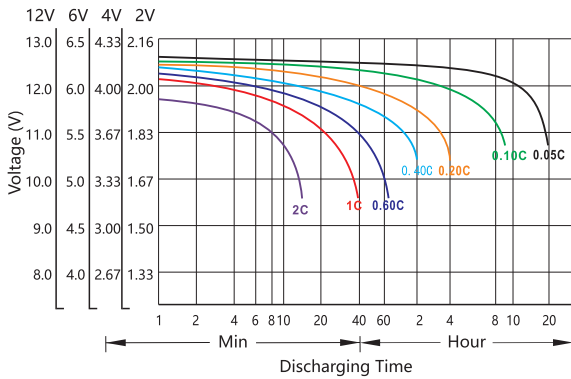
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	272	195	157	90.7	66.4	52.4	48.1	40.9	31.5	25.5	12.8
1.80V/cell	281	200	162	93.5	68.7	53.7	49.7	42.3	32.3	26.1	13.2
1.75V/cell	287	207	167	99.1	71.0	55.4	50.7	43.0	33.1	26.6	13.4
1.70V/cell	293	211	172	100	72.2	56.9	52.4	44.7	33.7	27.1	13.6
1.68V/cell	296	216	177	101	72.6	57.1	53.2	44.8	33.9	27.2	13.7
1.60V/cell	302	221	179	103	74.5	58.4	53.9	45.6	34.3	27.5	13.8

## Battery Dimensions(mm)

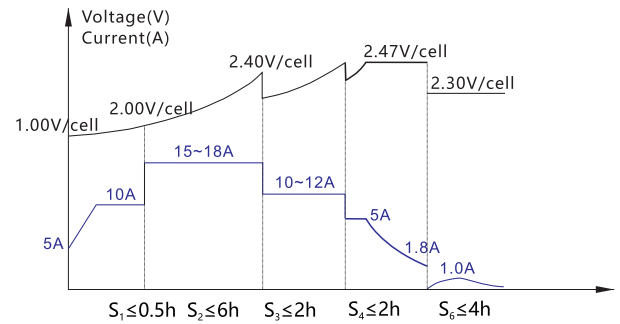


## Electrical Characteristics

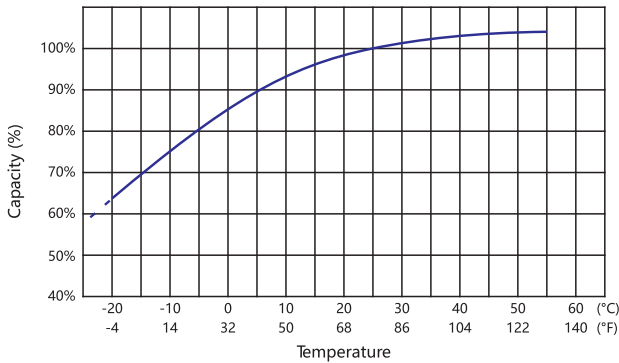
### Discharging Characteristics@25°C(77°F)



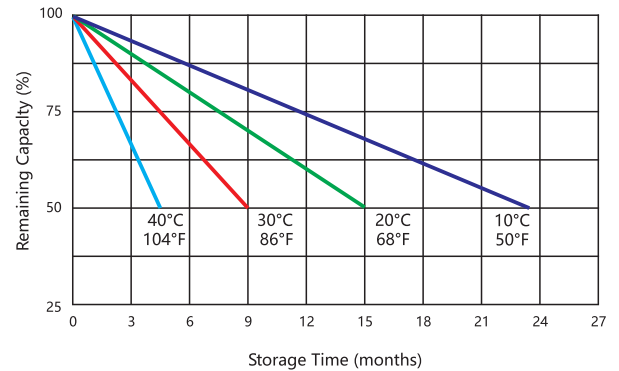
### Charging Characteristics@25°C(77°F)



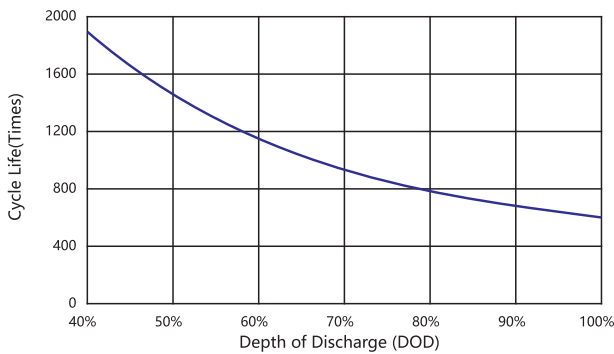
### Capacity vs Temperature



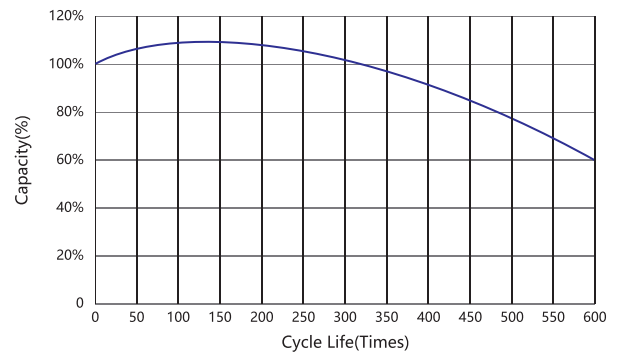
### Self-discharge vs Time



### 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	Limited Voltage
Limited current: ≤0.18C <sub>A</sub>	14.6~14.8V @25°C(77°F) Temp.Coefficient: -24mV/°C	13.6~13.8V @25°C(77°F) Temp.Coefficient: -18mV/°C