

# TNEP12-66[12V66Ah]

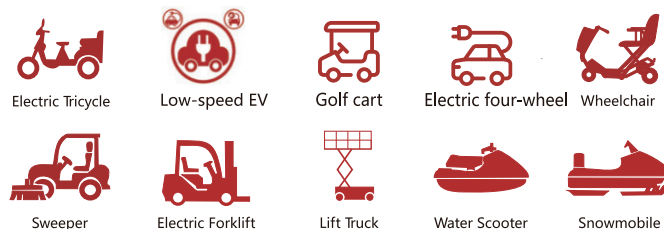


## Product Features

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
TNEP12-66	Length	Width	Height	Total Height	15.3/33.7	I3	ABS UL94-HB (Optional: FR ABS UL94-V0)
	230/8.97	132/5.15	180/7.02	180/7.02			

## Product Specifications

Nominal Voltage	Rated Capacity25°C/77°C	Operating Temp.Range	Capacity Effected Temp	Capacity vs Storage Time (25°C/77°F)
12V	66 Ah 20hr Rate (1.80V/cell) 60 Ah 10hr Rate (1.75V/cell) 56 Ah 5hr Rate (1.75V/cell) 48 Ah 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%

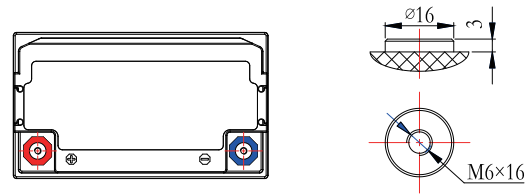
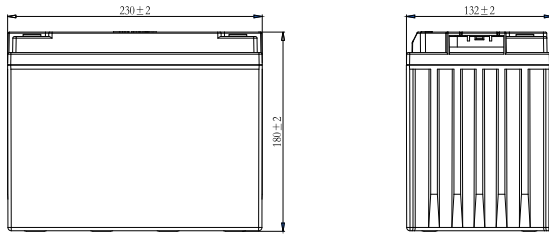
## Constant Current Discharge (A)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	70.8	50.4	40.4	23.1	14.9	12.1	10.6	9.13	7.02	5.88	3.19
1.80V/cell	73.3	51.9	41.6	23.9	15.4	12.3	11.1	9.47	7.14	5.95	3.30
1.75V/cell	75.2	53.9	43.2	25.4	16.0	12.8	11.3	9.62	7.35	6.01	3.36
1.70V/cell	77.1	55.3	44.7	25.8	16.4	13.5	11.8	10.2	7.54	6.19	3.44
1.67V/cell	78.7	57.0	46.3	26.1	16.6	13.6	12.2	10.2	7.85	6.37	3.47
1.60V/cell	80.8	58.7	47.2	27.0	17.1	14.0	12.4	10.6	8.12	6.76	3.49

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

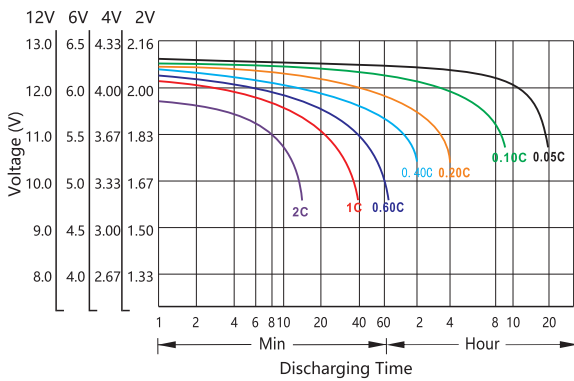
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	138	99.2	79.9	46.1	29.8	24.4	21.5	18.4	14.2	11.9	6.50
1.80V/cell	143	102	82.0	47.5	30.8	24.8	22.2	19.1	14.4	12.0	6.69
1.75V/cell	146	105	84.8	50.3	31.8	25.6	22.5	19.3	14.8	12.1	6.79
1.70V/cell	149	107	87.3	50.8	32.4	26.7	23.5	20.4	15.1	12.4	6.91
1.67V/cell	150	110	89.8	51.1	32.6	26.8	24.0	20.3	15.6	12.7	6.93
1.60V/cell	153	112	90.7	52.3	33.4	27.4	24.3	20.8	16.0	13.4	6.95

## Battery Dimensions(mm)

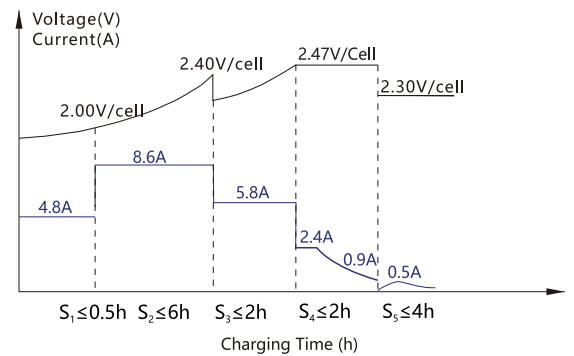


## Electrical Characteristics

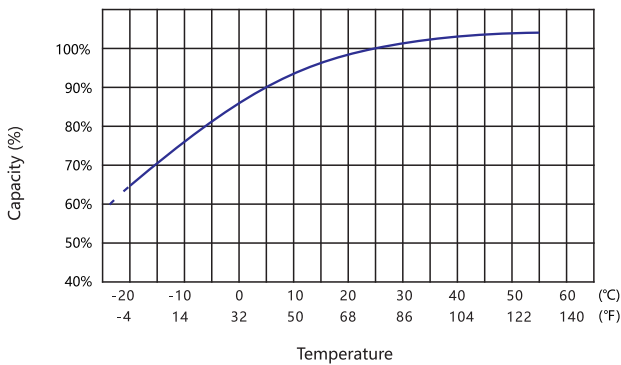
### Discharging Characteristics@25°C(77°F)



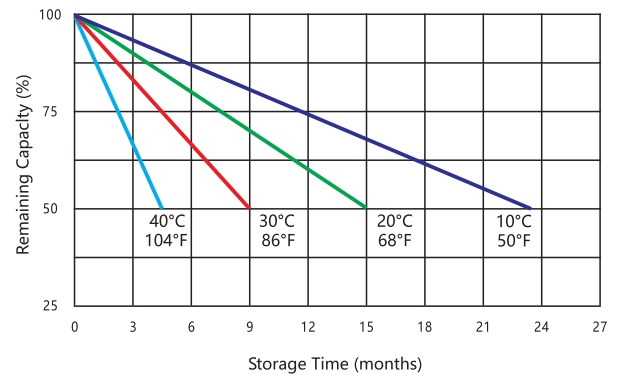
### Charging Characteristics@25°C(77°F)



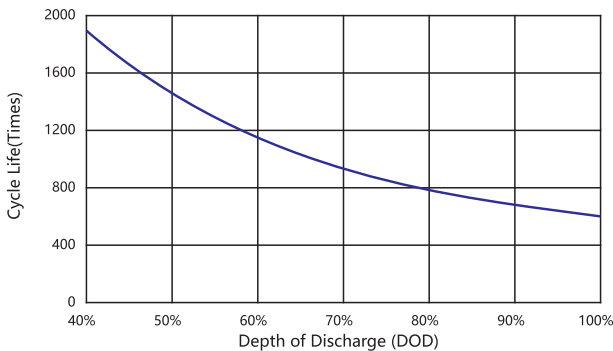
### Capacity vs Temperature



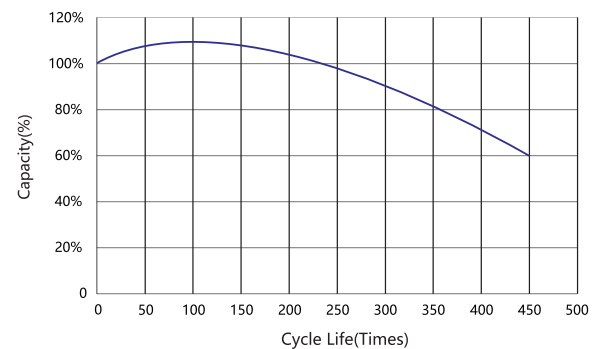
### Self-discharge vs Time



### 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: $\leq 0.18C_5A$	14.6V~14.8V @25°C(77°F) Temp.Coefficient: -24mV/°C	13.6V~13.8V @25°C(77°F) Temp.Coefficient: -18mV/°C