

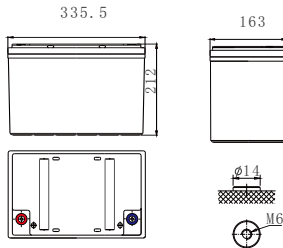
# TNET12-100 [12V100Ah]



## Product Features

↑40% Cycle Life 400~500 Cycle Times @100%DOD, 40°C

<b>95%</b> Charging Efficiency Optimized active material ratio	<b>0%</b> Maintenance AGM VRLA Tech	<b>↓30%</b> Charging Time Special Negative formula	<b>↓10%</b> Water Loss Ratio Upgraded design of alloy grid
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## Physical Specification

Model	Dimensions (mm/inch)				Weight (kg/lbs)	Terminal	Container
	Length	Width	Height	Total Height			
TNET12-100	335.5/13.2	163/6.42	212/8.35	212/8.35	31.0/68.3	M6	ABS UL94-HB (Optional: FR ABS UL94-V0)

## Product Applications



## Product Specifications

Nominal Voltage	Rated Capacity 25°C/77°C	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: -15~50°C (5~122°F) Charge: 0~45°C (32~113°F) Storage: -15~40°C (5~104°F) Recommend : 0~42°C (32~108°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)

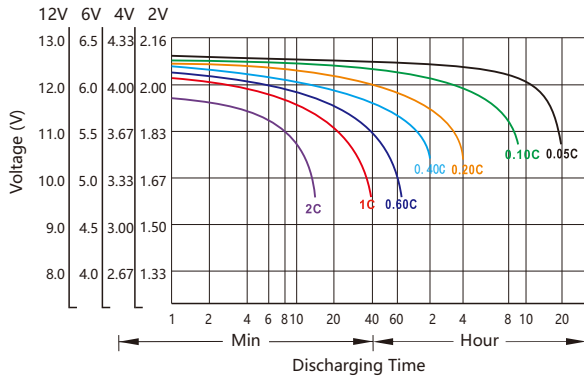
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	107	76.4	61.2	35.0	24.8	19.6	16.0	13.6	10.5	8.60	4.84
1.80V/cell	111	78.7	63.1	36.2	25.7	20.2	16.6	14.1	10.8	8.82	5.00
1.75V/cell	114	81.6	65.4	38.5	26.7	20.9	17.0	14.4	11.1	9.00	5.10
1.70V/cell	117	83.7	67.7	39.1	27.3	21.6	17.7	15.1	11.4	9.23	5.21
1.68V/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)

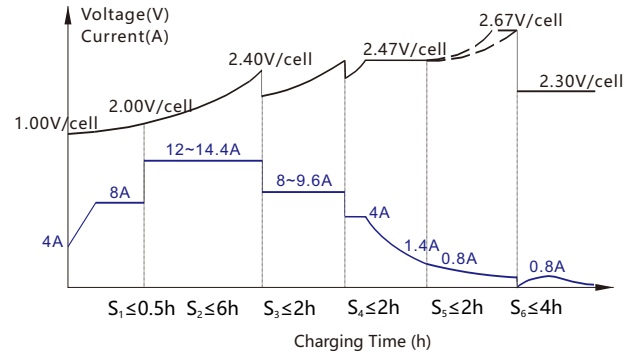
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	209	150	121	69.8	49.7	39.4	32.3	27.5	21.3	17.4	9.84
1.80V/cell	216	154	124	71.9	51.3	40.4	33.4	28.4	21.8	17.8	10.1
1.75V/cell	221	160	129	76.2	53.1	41.7	34.0	28.9	22.3	18.1	10.3
1.70V/cell	225	163	132	77.0	53.9	42.9	35.2	30.1	22.8	18.5	10.5
1.68V/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

## Electrical Characteristics

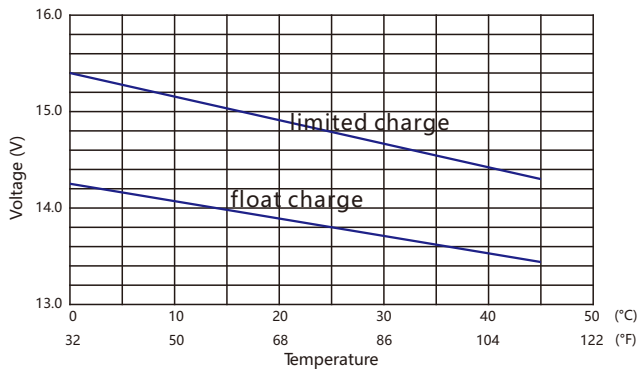
### Discharging Characteristics@25°C(77°F)



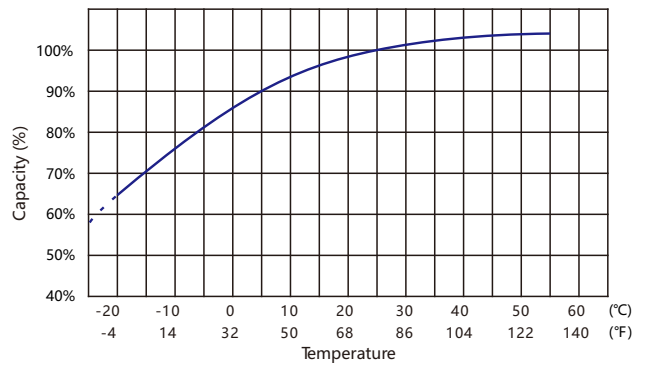
### Charging Characteristics@25°C(77°F)



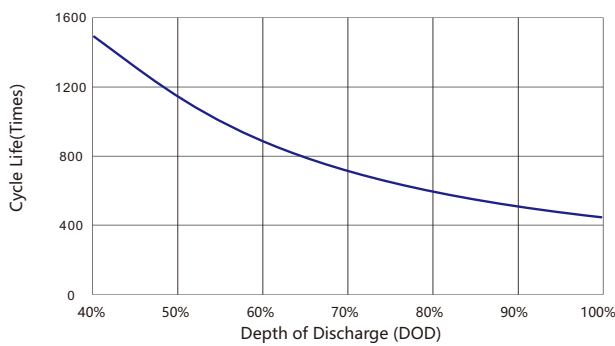
### Charging Voltage vs Temperature



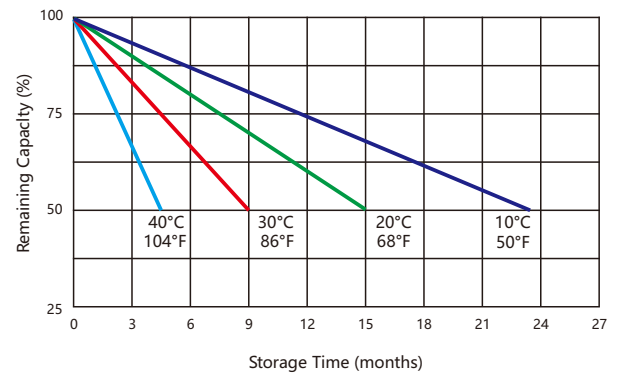
### Capacity vs Temperature



### Cycle Life vs Depth of Discharge@40°C(104°F)



### Self-discharge vs Time



## Usage and Maintenance

Limited Current	Limited Voltage	Float Voltage
Limited current : $\leq 0.3C_5A$	14.75~14.85V@25°C(77°F) Temp.Coefficient: -24mV/°C	13.7~13.9V@25°C(77°F) Temp.Coefficient: -18mV/°C

## Precautions

1. Different from flooded battery, the product is a valve-controlled seal design that does not require the addition of water for maintenance.
2. Please use the original charger, you can not use the flooded battery charger or other unmatched charger.
3. Load conditions is recommended: no more than 5 people (75kg / person), including driver.