

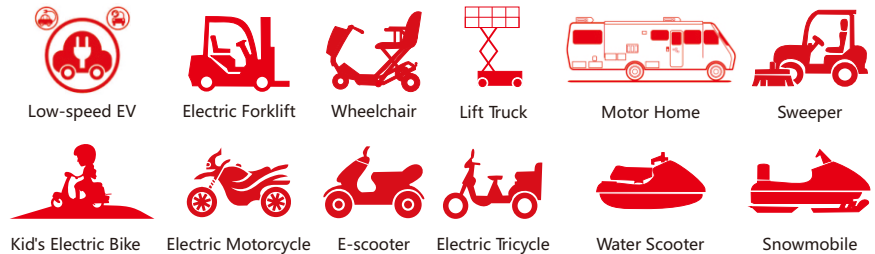
# TNE 12-130 [12V130Ah]



## 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 (kg/lbs)	Terminal	Container
TNE12-130	Length	Width	Height	Total Height	34.5/76.1	17	ABS UL94-HB (Optional: FR ABS UL94-V0)
	330/13.0	171/6.73	214/8.43	214/8.43			

## Product Specifications

Nominal Voltage	Rated Capacity <sup>25°C/77°C</sup>	Operating Temp. Range	Capacity Effected Temp	Capacity vs Storage Time
12V	130Ah 20hr Rate (1.80V/cell) 115Ah 10hr Rate (1.75V/cell) 108Ah 5hr Rate (1.75V/cell) 100Ah 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	139	99.3	79.6	45.5	31.0	24.7	20.2	17.3	13.4	11.0	6.29
1.80V/cell	144	102	82.0	47.1	32.1	25.4	21.0	17.9	13.8	11.3	6.50
1.75V/cell	148	106	85.0	49.0	33.3	26.3	21.5	18.3	14.1	11.5	6.62
1.70V/cell	152	109	88.0	49.8	34.1	27.3	22.4	19.2	14.5	11.8	6.77
1.67V/cell	155	112	91.1	51.4	34.5	27.5	23.0	19.3	14.8	12.0	6.83
1.60V/cell	159	116	93.0	53.1	35.7	28.3	23.5	19.9	15.2	12.4	6.88

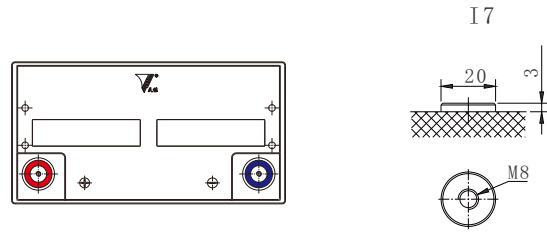
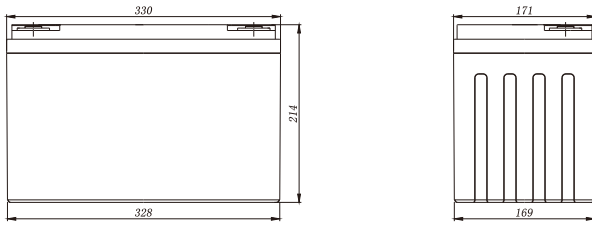
## Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	272	195	157	90.7	62.1	49.7	40.8	34.9	27.1	22.3	12.8
1.80V/cell	281	200	162	93.5	64.2	50.9	42.2	36.1	27.8	22.8	13.2
1.75V/cell	287	207	167	97.1	66.3	52.5	43.0	36.6	28.4	23.1	13.4
1.70V/cell	293	211	172	98.1	67.4	54.1	44.6	38.3	29.0	23.6	13.6
1.67V/cell	296	216	177	101	67.8	54.3	45.4	38.3	29.4	23.9	13.7
1.60V/cell	302	221	179	103	69.6	55.4	46.0	39.1	30.0	24.5	13.7

# TNE 12-130 [12V130Ah]

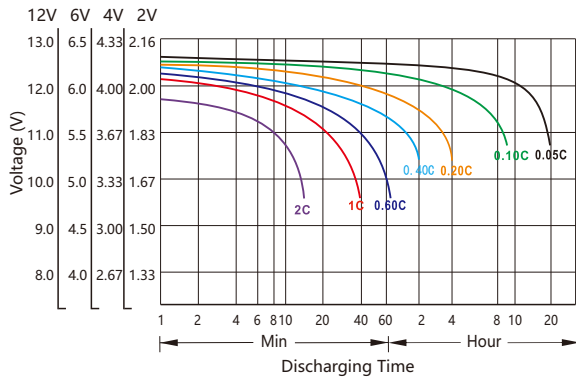


## Battery Dimensions(mm)

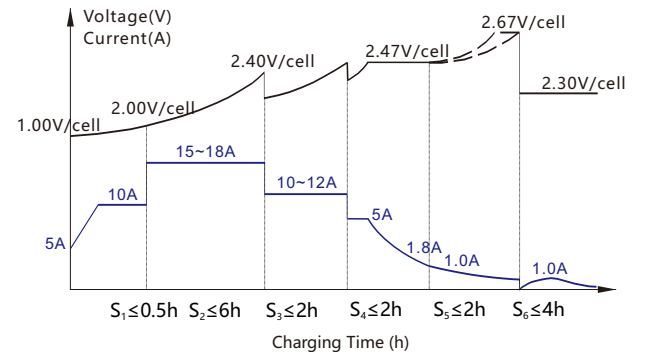


## Electrical Characteristics

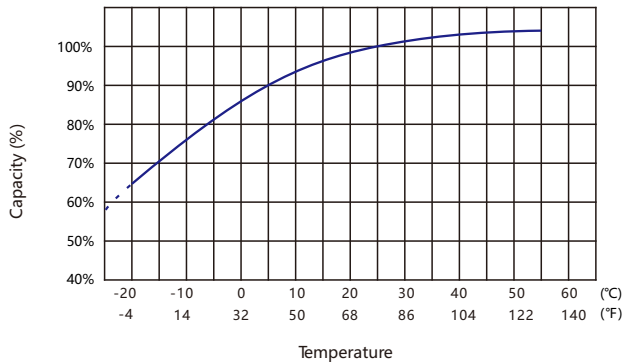
### Discharging Characteristics@25°C(77°F)



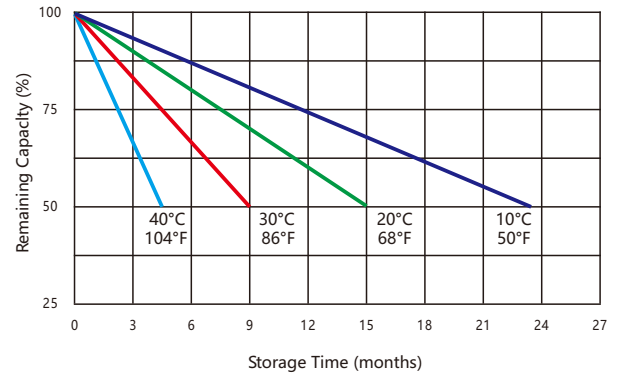
### Charging Characteristics@25°C(77°F)



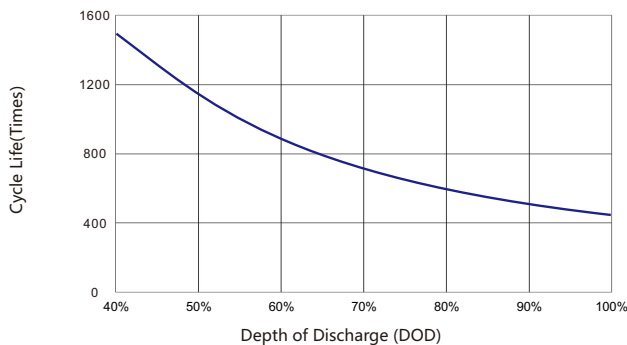
### Capacity vs Temperature



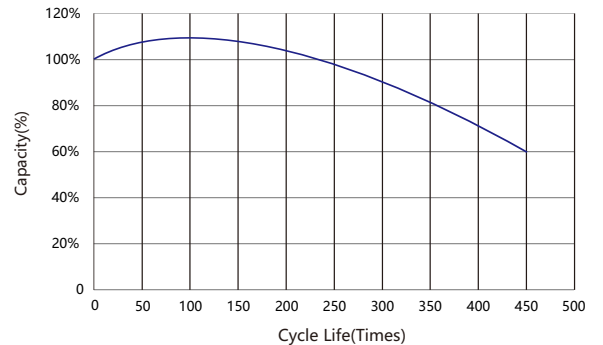
### Self-discharge vs Time



### 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