

# TN12-150 [12V 150Ah]

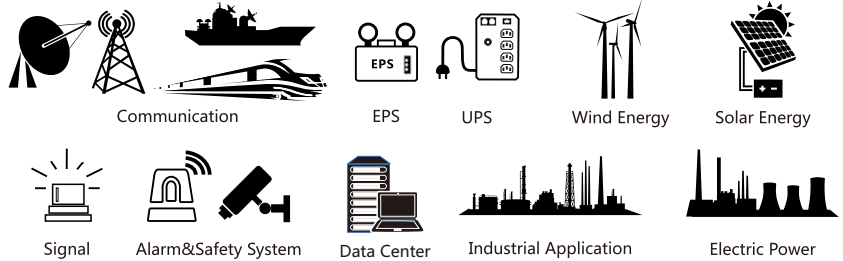


## Product Features

General Purpose (AGM)		6~10 years of design life@25°C	
100%	Model Coverage Both Cycle & Float Application	↑98%	Capacity Retention High Purity Electrolyte
↑20%	Charge Acceptance Special Negative Additive	↓50%	Grid Corrosion Rare-earth patent alloy



## Product Applications



## Physical Specifications

Model	Dimensions (mm/inch)				Weight (kg/lbs)	Terminal	Container
TN12-150	Length	Width	Height	Total Height	42.0/92.6	I7	ABS UL94-HB (Optional: FR ABS UL94-V0)
	480/18.9	170/6.69	240/9.45	240/9.45			

## Product Specifications

Nominal Voltage	Rated Capacity@25°C/77°F	Internal Resistance	Max. Discharge Current	Operating Temp. Range
12V	159Ah 20hr Rate (1.80V/cell) 150Ah 10hr Rate (1.80V/cell) 132Ah 5hr Rate (1.75V/cell) 119Ah 3hr Rate (1.70V/cell)	3mΩ@25°C/77°F	1080A (5s)	Discharge:-15~50°C (5~122°F) Charge:0~40°C (32~104°F) Storage:-15~40°C (5~104°F) Optimum:25±2°C (77±4°F)

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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	295	234	204	176	134	102	84.5	50.4	36.8	29.3	24.7	21.6	17.4	14.6	7.80
1.80V/cell	359	274	229	192	142	108	88.6	52.6	38.3	30.6	25.7	22.4	17.9	15.0	7.94
1.75V/cell	416	301	249	204	150	113	92.0	53.9	39.2	31.2	26.3	22.9	18.3	15.3	8.10
1.70V/cell	462	325	259	211	158	117	95.0	54.8	39.8	31.8	26.7	23.3	18.6	15.6	8.27
1.67V/cell	487	342	270	220	163	120	97.3	56.0	40.4	32.4	27.2	23.6	18.8	15.8	8.41
1.60V/cell	522	362	284	231	171	125	99.5	56.9	41.1	32.8	27.6	23.9	19.0	16.0	8.57

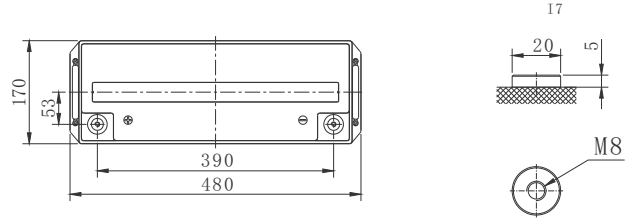
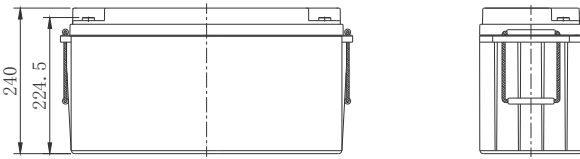
## Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	549	443	391	341	264	202	168	101	74.5	59.4	50.3	44.1	35.7	30.0	16.1
1.80V/cell	668	517	437	371	279	214	176	105	77.2	61.9	52.2	45.7	36.7	30.7	16.3
1.75V/cell	772	566	474	392	294	224	182	108	78.7	62.9	53.3	46.6	37.4	31.3	16.6
1.70V/cell	856	609	492	406	307	230	188	109	79.7	64.0	54.0	47.2	37.9	31.7	16.8
1.67V/cell	900	640	511	421	317	236	192	111	80.7	64.9	54.7	47.7	38.1	32.1	17.1
1.60V/cell	960	674	535	440	331	244	195	113	81.9	65.6	55.4	48.1	38.3	32.4	17.4

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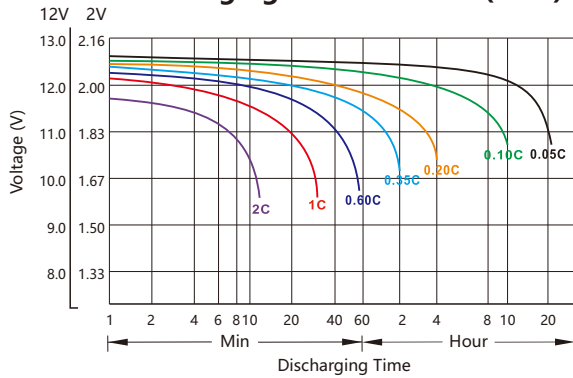


## Battery Dimensions(mm)

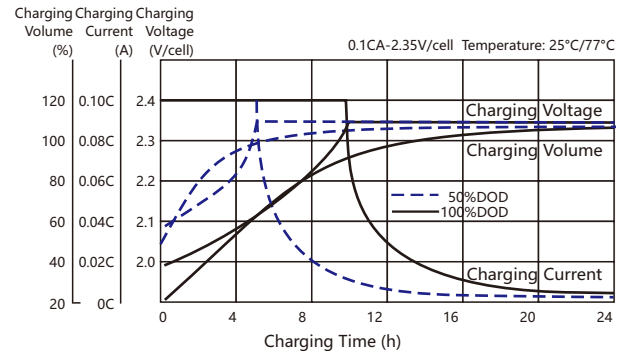


## Electrical Characteristics

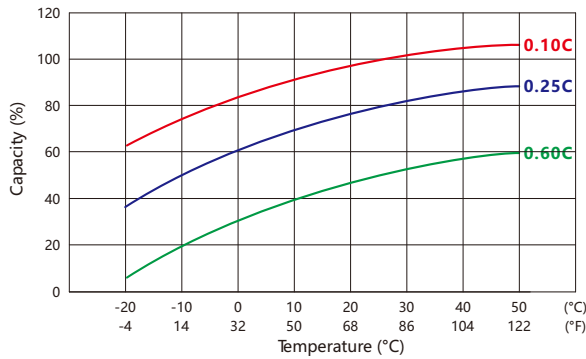
### Discharging Characteristics(25°C)



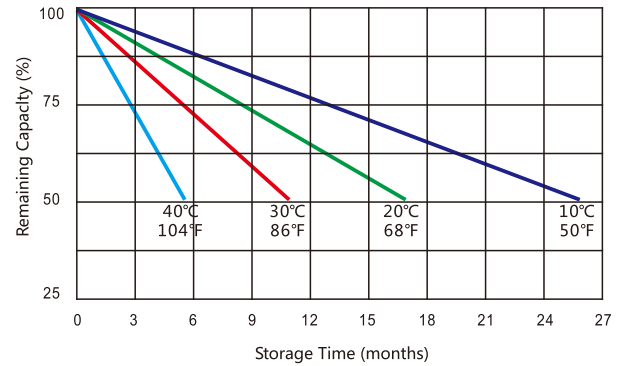
### Charging Characteristics(25°C)



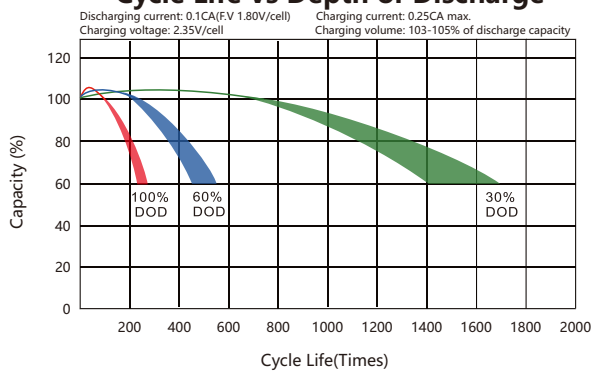
### Capacity vs Temperature



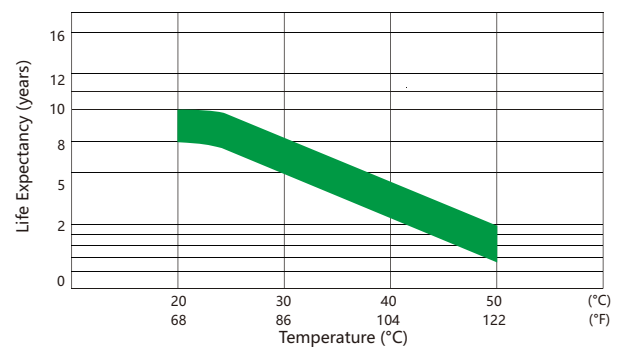
### Self-discharge vs Time



### Cycle Life vs Depth of Discharge



### Floating Life vs Temperature



## Usage and Maintenance

Charge Current	Equalization Charge	Float Charge
Limited current : $\leq 0.25 C_{10}A$	Constant Voltage: 14.1~14.4V@25°C(77°F) Temp.Coefficient:-24mV/°C	Constant Voltage: 13.5~13.8V@25°C(77°F) Temp.Coefficient:-18mV/°C