

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



## Energy Storage Battery-AGM-GEL Technology-TNG Series

# TNG12-250B

(12V 250Ah)

## GENERAL FEATURES

- ◆ Oxygen recombination technology: maintenance-free, no need to add water or acid
- ◆ The patent grid alloy: less gassing, low self-discharge, excellent corrosion resistance
- ◆ Special paste formula: additives for deep discharge, long cycle life
- ◆ High quality AGM separator: extend cycle life and prevent micro short circuit
- ◆ The patent Nano silica electrolytes, extend cycle life and improve the deep discharge performance
- ◆ ABS container: increase the strength of battery (Flame-retardant ABS UL94-V0 is optional)



## Application

- ◆ Renewable energy system
- ◆ Hybrid solar power system
- ◆ Uninterrupted Power Supply ( UPS )
- ◆ Communications and electric equipment
- ◆ Emergency lighting equipment
- ◆ Fire alarm and security systems
- ◆ Control and other automation equipment
- ◆ Emergency power supply ( EPS )
- ◆ Various power toy and hobby equipment
- ◆ Lighting equipment

## Dimension

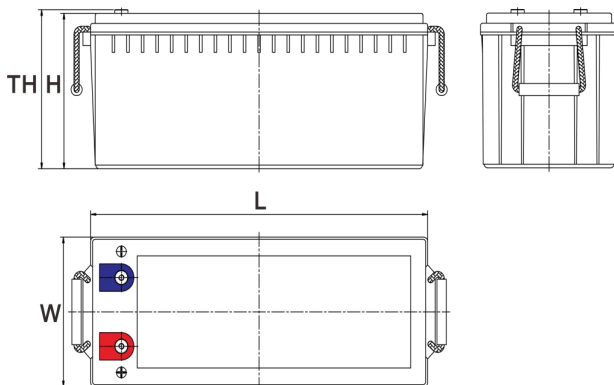
Unit:mm

Length 520±2mm / 20.47inch

Width 268±2mm / 10.55inch

Container Height 220±3mm / 8.66inch

Total Height 225±3mm / 8.86inch



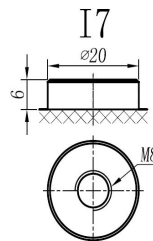
## Terminal

Unit:mm

Terminal Type: I7

## Weight

72.5kg 159.83lbs



ISO9001 ISO14001 OHSAS18001

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## TNG12-250B

### Specification

<b>Nominal Voltage</b>	12V	
	265Ah	20hr Rate(1.80V/cell)
	250Ah	10hr Rate(1.80V/cell)
<b>Rated Capacity(25°C)</b>	215Ah	5hr Rate(1.75V/cell)
	201Ah	3hr Rate(1.70V/cell)
	152Ah	1hr Rate(1.60V/cell)
<b>Container Material</b>	ABS ( Flame-retardant ABS UL94-V0 is optional )	
<b>Operating Temperature Range</b>	<b>Discharge</b>	-20 ~ +50°C
	<b>Charge</b>	0 ~ +40°C
	<b>Storage</b>	-15 ~ +40°C
<b>Capacity Effected by Temperature</b>	<b>40°C / 104°F</b>	106%
	<b>25°C / 77°F</b>	100%
	<b>0°C / 32°F</b>	86%
	<b>-10°C / 14°F</b>	65%
<b>Charge Voltage</b>	<b>Float Voltage</b>	2.25 -2.30V/cell@25°C, Tem. Coefficient: -3mV/cell/°C
	<b>Equalize Voltage</b>	2.35 -2.40V/cell@25°C, Tem. Coefficient: -3mV/cell/°C
	<b>Cycle Voltage</b>	2.40 -2.50V/cell@25°C, Tem. Coefficient: -5mV/cell/°C
<b>Max Charging Current</b>	75A (0.3C)	
<b>Max. Discharge Current (5S)</b>	2500A	
<b>Internal Resistance</b>	2.5mΩ	
<b>Self Discharge</b>	<3%, TN series stored at 25 ° C require a supplementary charge every six months, the charging interval would shrink when the ambient temperature	

### Discharge Performance

Constant Current Discharge Table (25°C/77°F) Unit: A													
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	280.7	234.7	186.6	143.1	117.9	75.1	59.39	48.49	39.09	34.00	27.60	23.62	13.171
1.80V/cell	339.1	277.5	220.1	166.5	132.0	81.9	63.89	51.79	41.99	36.50	29.30	25.03	13.273
1.75V/cell	370.4	298.5	228.6	172.8	138.1	85.0	65.09	52.89	42.99	37.50	29.80	25.33	13.375
1.70V/cell	395.4	313.7	237.9	179.7	142.5	88.4	66.88	54.29	44.19	38.30	30.20	25.53	13.682
1.65V/cell	420.4	333.2	250.9	184.2	147.3	90.8	69.68	56.19	45.39	39.10	30.70	26.03	13.784
1.60V/cell	449.7	355.0	265.0	192.0	152.5	93.9	71.88	57.99	46.89	40.00	31.00	26.33	13.886

Constant Power Discharge Table (25°C/77°F) Unit: W													
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	523.6	442.4	355.6	271.4	224.1	143.8	114.08	93.47	75.53	66.30	54.01	46.75	25.500
1.80V/cell	624.2	515.3	413.2	313.2	249.8	155.8	122.06	99.29	80.75	70.86	57.18	49.45	25.700
1.75V/cell	673.4	549.1	425.4	322.0	260.1	161.0	123.84	101.16	82.63	72.54	57.97	49.85	25.900
1.70V/cell	709.0	572.7	440.3	333.5	267.4	167.0	127.09	103.63	84.50	73.93	58.77	50.35	26.400
1.65V/cell	748.1	603.9	460.7	338.8	274.4	170.8	131.83	106.78	86.57	75.32	59.56	51.25	26.700
1.60V/cell	786.8	636.3	482.9	351.2	282.68	175.60	135.28	109.74	89.13	76.70	59.95	51.75	26.800