

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



## Maintenance Free VRLA AGM Battery - Long Life Type

# TNL12-55

(12V 55Ah)

### 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
- ♦ Long life, low self-discharge rate and high reliability, deep discharge recoverability
- ♦ High quality AGM separator: extend cycle life and prevent micro short circuit
- ♦ ABS container: increase the strength of battery (Flame-retardant ABS UL94-V0 is optional)

### Dimension

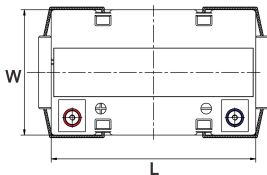
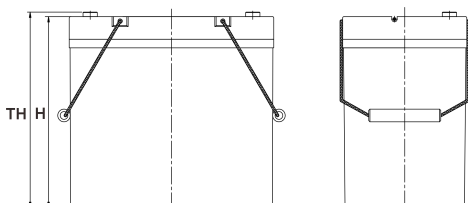
Unit:mm

Length 229±2mm / 9.02inch

Width 138.5±2mm / 5.45inch

Container Height 211±3mm / 8.31inch

Total Height 216±3mm / 8.5inch



### Application

- ♦ Uninterrupted Power Supply ( UPS )
- ♦ Communications and electric equipment
- ♦ Emergency lighting equipment
- ♦ Fire alarm and security system
- ♦ Robots, control equipment, and other factory automation equipment
- ♦ Emergency power supply ( EPS )
- ♦ Portable VTR/TV, radio and so on
- ♦ Power tools, lawn mowers, vacuum cleaners
- ♦ Cameras and photographic equipment
- ♦ Portable measuring equipment
- ♦ Portable telephone sets
- ♦ Various power toys and hobby equipment
- ♦ Lighting equipment

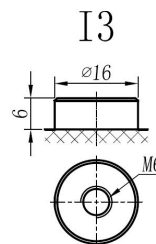
### Terminal

Unit:mm

Terminal Type: I3

### Weight

17.7kg 39.13lbs



This document is subject to change without prior notification

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## TNL12-55

### Specificaion

<b>Nominal Voltage</b>	12V	
<b>Rated Capacity(25°C)</b>	59Ah	20hr Rate(1.80V/cell )
	55Ah	10hr Rate(1.80V/cell )
	49Ah	5hr Rate(1.75V/cell )
	46Ah	3hr Rate(1.70V/cell )
	35Ah	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</b>	<b>Float Voltage</b>	2.23 -2.27V/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>	16.5A ( 0.3C )	
<b>Max. Discharge Current (5!)</b>	660A	
<b>Internal Resistance</b>	7.5mΩ	
<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 went higher	

### Discharge Performance

Constant Current Discharge Table (25°C/77°F) Unit: A

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	64.5	54.2	48.0	39.8	31.2	26.69	17.26	12.99	10.66	8.95	7.81	6.26	5.335	2.843
1.80V/cell	73.7	60.9	53.2	43.3	33.6	28.22	18.57	14.01	11.27	9.49	8.27	6.59	5.506	2.943
1.75V/cell	83.7	68.6	58.8	47.0	36.7	30.75	19.29	14.51	11.67	9.71	8.52	6.81	5.656	3.023
1.70V/cell	94.6	76.1	64.9	51.4	39.5	32.48	20.30	15.33	12.18	10.25	8.94	7.10	5.866	3.093
1.67V/cell	101.5	81.5	69.0	54.2	41.8	33.60	21.11	15.94	12.69	10.56	9.25	7.33	6.036	3.193
1.60V/cell	111.1	89.2	74.9	57.9	43.4	34.61	21.62	16.34	12.99	10.86	9.44	7.46	6.166	3.243

Constant Power Discharge Table (25°C/77°F) Unit: W

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	120.3	102.2	91.6	76.8	59.8	51.25	33.43	25.23	20.72	17.52	15.32	12.41	10.711	5.696
1.80V/cell	136.0	113.2	99.8	82.1	64.0	53.85	35.74	26.93	21.92	18.42	16.22	13.01	11.011	5.886
1.75V/cell	152.1	126.0	109.2	88.5	69.1	58.46	37.04	27.93	22.62	18.82	16.72	13.41	11.311	6.026
1.70V/cell	167.9	137.9	119.6	96.1	74.2	61.66	38.84	29.33	23.52	19.92	17.42	13.91	11.712	6.176
1.67V/cell	178.7	146.5	126.3	100.6	77.8	63.26	40.04	30.43	24.42	20.42	18.02	14.41	12.012	6.356
1.60V/cell	192.1	157.9	135.7	106.6	80.4	64.86	40.94	31.03	24.82	20.82	18.32	14.61	12.212	6.456

动力电池

储能电池

备用电池

摩托车电池



## 阀控式免维护AGM电池-长寿命系列

# TNL12-55

(12V 55Ah)

### 产品特点

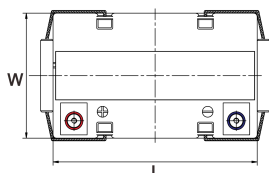
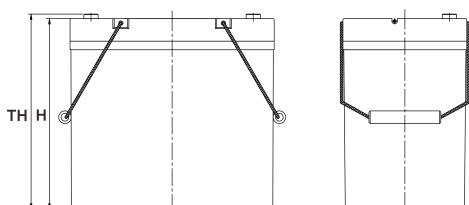
- ◆ 阀控式免维护设计，寿命期间无需加水或加酸
- ◆ 专利稀土合金板栅，减少气体产生，自放电率低，抗腐蚀能力出众
- ◆ 电池寿命长，自放电率低具有高可靠性，深放电恢复能力出色
- ◆ 高质量AGM隔板：防止微短路，延长循环寿命
- ◆ ABS壳盖：电池外壳强度高（阻燃壳体UL94-V0可选）



### 尺寸

单个尺寸

长	229±2mm
宽	138.5±2mm
高	211±3mm
总高	216±3mm



### 产品应用

- ◆ 不间断电源(UPS)
- ◆ 通信和电力设备
- ◆ 紧急照明设备
- ◆ 火灾报警及安防系统
- ◆ 机器人、控制设备及其他机械自动化设备
- ◆ 应急电源系统
- ◆ 便携式音频设备
- ◆ 电动工具，割草机，真空吸尘器
- ◆ 照相设备
- ◆ 便携式测量工具
- ◆ 便携式通话设备
- ◆ 各式电动玩具及娱乐设施
- ◆ 照明设备

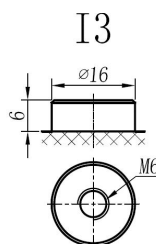
### 端子类型

单位:mm

端子类型 I3

### 重量

17.7kg 39.13lbs



ISO9001 ISO14001 OHSAS18001

内容如有改动，恕不另行通知

动力电池

储能电池

备用电池

摩托车电池



## TNL12-55

### 规格书

额定电压	12V	
容量(25°C)	59Ah	20hr Rate(1.80V/cell)
	55Ah	10hr Rate(1.80V/cell)
	49Ah	5hr Rate(1.75V/cell)
	46Ah	3hr Rate(1.70V/cell)
	35Ah	1hr Rate(1.60V/cell)
壳体材料	ABS (阻燃ABS壳体可选)	
使用温度范围	放电	-20 ~ +50°C
	充电	0 ~ +40°C
	储存	-15 ~ +40°C
不同温度下 电池容量系数	40°C / 104°F	106%
	25°C / 77°F	100%
	0°C / 32°F	86%
	-10°C / 14°F	65%
充电	浮充电压	2.23 -2.27V/单格@25°C, 温度补偿系数: -3mV/单格/°C
	均充电压	2.35 -2.40V/单格@25°C, 温度补偿系数: -3mV/单格/°C
	循环使用电压	2.40 -2.50V/单格@25°C, 温度补偿系数: -5mV/单格/°C
最大充电电流	16.5A (0.3C)	
最大放电电流 (5S)	660A	
电阻	7.5mΩ	
自放电	<3%, TN系列储存在25°C 时需每6个月进行一次补充充电, 环境温度更高时则充电间隔时间越短	

### 放电性能

恒电流放电表 (25°C/77°F) 单位: A														
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	64.5	54.2	48.0	39.8	31.2	26.69	17.26	12.99	10.66	8.95	7.81	6.26	5.335	2.843
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1.60V/cell	111.1	89.2	74.9	57.9	43.4	34.61	21.62	16.34	12.99	10.86	9.44	7.46	6.166	3.243

恒功率放电表 (25°C/77°F) 单位: W														
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	120.3	102.2	91.6	76.8	59.8	51.25	33.43	25.23	20.72	17.52	15.32	12.41	10.711	5.696
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