

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Maintenance Free VRLA AGM Battery - Long Life Type

TNL12-38

(12V 38Ah)

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

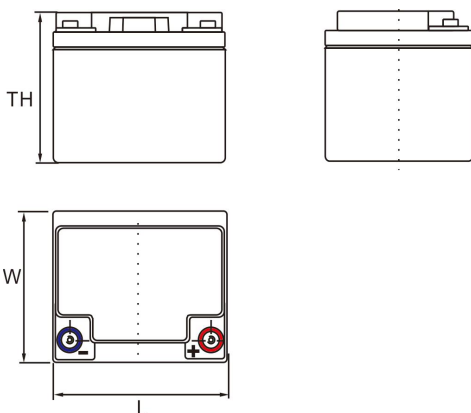
Unit:mm

Length 198.5±2mm / 7.81inch

Width 166±2mm / 6.54inch

Container Height 169.5±3mm / 6.67inch

Total Height 169.5±3mm / 6.67inch



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

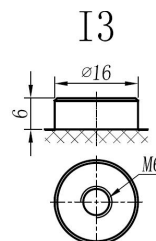
Terminal

Unit:mm

Terminal Type: I3

Weight

13.2kg 29.18lbs



This document is subject to change without prior notification

Motive Battery Energy Storage Battery Reserve Battery Motorcycle Battery

TNL12-38

Specificaion

Nominal Voltage	12V	
Rated Capacity(25°C)	41Ah	20hr Rate(1.80V/cell)
	38Ah	10hr Rate(1.80V/cell)
	34Ah	5hr Rate(1.75V/cell)
	32Ah	3hr Rate(1.70V/cell)
	24Ah	1hr Rate(1.60V/cell)
Container Material	ABS (Flame-retardant ABS UL94-V0 is optional)	
Operating Temperature Range	Discharge	-20 ~ +50°C
	Charge	0 ~ +40°C
	Storage	-15 ~ +40°C
Capacity Effected by Temperature	40°C / 104°F	106%
	25°C / 77°F	100%
	0°C / 32°F	86%
	-10°C / 14°F	65%
Charge	Float Voltage	2.23 -2.27V/cell@25°C, Tem.Coefficient : -3mV/cell/°C
	Equalize Voltage	2.35 -2.40V/cell@25°C, Tem.Coefficient : -3mV/cell/°C
	Cycle Voltage	2.40 -2.50V/cell@25°C, Tem.Coefficient : -5mV/cell/°C
Max. Charging Current	11.4A (0.3C)	
Max. Discharge Current (5'	456A	
Internal Resistance	10mΩ	
Self-Discharge	<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	44.5	37.4	33.2	27.5	21.5	18.47	11.98	8.97	7.35	6.18	5.39	4.32	3.684	1.962
1.80V/cell	51.0	42.0	36.7	29.9	23.2	19.49	12.79	9.64	7.82	6.56	5.72	4.56	3.804	2.032
1.75V/cell	57.9	47.3	40.5	32.5	25.4	21.21	13.30	10.03	8.09	6.71	5.89	4.71	3.904	2.082
1.70V/cell	65.4	52.6	44.7	35.5	27.3	22.43	14.11	10.56	8.44	7.09	6.17	4.90	4.054	2.142
1.67V/cell	70.2	56.3	47.6	37.4	28.9	23.24	14.62	10.96	8.78	7.32	6.39	5.07	4.174	2.202
1.60V/cell	77.2	61.7	51.8	39.9	30.0	23.95	14.92	11.27	8.97	7.50	6.52	5.16	4.254	2.242

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	83.1	70.6	63.3	53.1	41.2	35.44	23.12	17.42	14.31	12.11	10.61	8.55	7.367	3.934
1.80V/cell	94.0	78.2	69.0	56.8	44.1	37.24	24.62	18.62	15.12	12.71	11.21	8.97	7.588	4.064
1.75V/cell	105.0	87.1	75.5	61.2	47.7	40.34	25.53	19.32	15.62	13.01	11.51	9.25	7.788	4.164
1.70V/cell	116.0	95.3	82.7	66.4	51.3	42.54	26.83	20.22	16.32	13.71	12.01	9.63	8.078	4.264
1.67V/cell	123.4	101.2	87.3	69.5	53.8	43.74	27.73	21.02	16.82	14.11	12.41	9.93	8.298	4.394
1.60V/cell	132.7	109.1	93.8	73.7	55.6	44.84	28.23	21.42	17.22	14.41	12.61	10.11	8.458	4.454

□ 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

TNL12-38

(12V 38Ah)

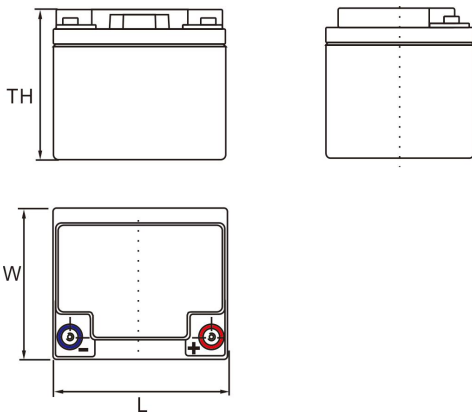
产品特点

- ◆ 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	198.5±2mm
宽	166±2mm
高	169.5±3mm
总高	169.5±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

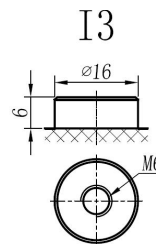
端子类型

单位:mm

端子类型 I3

重量

13.2kg 29.18lbs



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



TNL12-38

规格书

额定电压	12V	
容量(25°C)	41Ah	20hr Rate(1.80V/cell)
	38Ah	10hr Rate(1.80V/cell)
	34Ah	5hr Rate(1.75V/cell)
	32Ah	3hr Rate(1.70V/cell)
	24Ah	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	11.4A (0.3C)	
最大放电电流 (5S)	456A	
电阻	10mΩ	
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	44.5	37.4	33.2	27.5	21.5	18.47	11.98	8.97	7.35	6.18	5.39	4.32	3.684	1.962
1.80V/cell	51.0	42.0	36.7	29.9	23.2	19.49	12.79	9.64	7.82	6.56	5.72	4.56	3.804	2.032
1.75V/cell	57.9	47.3	40.5	32.5	25.4	21.21	13.30	10.03	8.09	6.71	5.89	4.71	3.904	2.082
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1.60V/cell	77.2	61.7	51.8	39.9	30.0	23.95	14.92	11.27	8.97	7.50	6.52	5.16	4.254	2.242

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	83.1	70.6	63.3	53.1	41.2	35.44	23.12	17.42	14.31	12.11	10.61	8.55	7.367	3.934
1.80V/cell	94.0	78.2	69.0	56.8	44.1	37.24	24.62	18.62	15.12	12.71	11.21	8.97	7.588	4.064
1.75V/cell	105.0	87.1	75.5	61.2	47.7	40.34	25.53	19.32	15.62	13.01	11.51	9.25	7.788	4.164
1.70V/cell	116.0	95.3	82.7	66.4	51.3	42.54	26.83	20.22	16.32	13.71	12.01	9.63	8.078	4.264
1.67V/cell	123.4	101.2	87.3	69.5	53.8	43.74	27.73	21.02	16.82	14.11	12.41	9.93	8.298	4.394
1.60V/cell	132.7	109.1	93.8	73.7	55.6	44.84	28.23	21.42	17.22	14.41	12.61	10.11	8.458	4.454