

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Industry Battery-General Purpose AGM Battery-TN Series

TN12-65

(12V 65Ah)

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
- ◆ Design life is 7~9 years at 25°C under standby application, 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

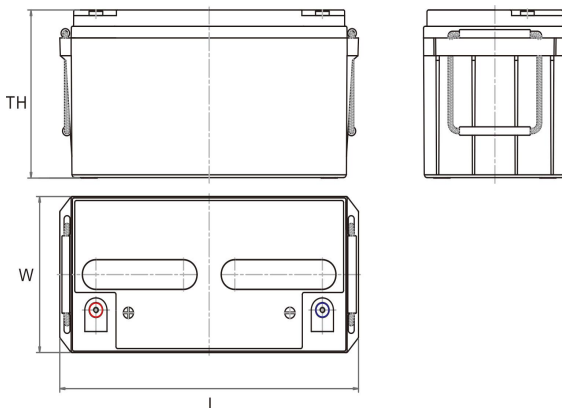
Unit:mm

Length 350±2mm / 13.78inch

Width 167±2mm / 6.57inch

Container Height 180±3mm / 7.09inch

Total Height 180±3mm / 7.09inch



Application

- ◆ Uninterrupted Power Supply (UPS)
- ◆ Communications and electric equipment
- ◆ Emergency lighting equipment
- ◆ Fire alarm and security system
- ◆ 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

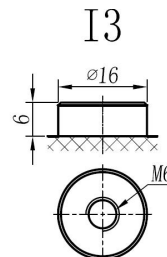
Unit:mm

Terminal Type: I3

Weight

21kg

46.3lbs



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



TN12-65

Specification

Nominal Voltage	12V	
	69Ah	20hr Rate (1.80V/cell)
	65Ah	10hr Rate (1.80V/cell)
Rated Capacity(25°C)	57Ah	5hr Rate (1.75V/cell)
	50Ah	3hr Rate (1.70V/cell)
	40Ah	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	19.5A (0.3C)	
Max. Discharge Current (5S)	780A	
Internal Resistance	7.3mΩ	
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	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	118.7	91.2	78.6	68.3	52.9	39.9	32.30	19.53	14.99	12.43	10.60	9.23	7.47	6.269	3.381
1.80V/cell	148.6	106.7	89.4	76.8	58.0	43.1	34.52	20.80	15.73	13.03	11.05	9.62	7.77	6.504	3.441
1.75V/cell	167.5	116.4	97.6	82.2	61.1	45.2	36.10	21.53	16.15	13.35	11.32	9.82	7.89	6.573	3.483
1.70V/cell	184.4	125.7	104.2	86.3	63.9	46.8	37.58	22.27	16.68	13.68	11.58	10.01	8.00	6.636	3.515
1.67V/cell	201.8	135.3	109.4	89.6	65.9	48.3	38.63	22.80	17.10	13.97	11.80	10.19	8.12	6.709	3.568
1.60V/cell	218.7	143.9	113.8	93.1	67.7	50.0	39.59	23.33	17.52	14.24	12.01	10.34	8.22	6.793	3.578

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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	235.0	180.6	155.6	135.2	104.7	77.9	63.07	38.13	29.27	24.28	20.70	18.12	14.66	12.413	6.695
1.80V/cell	294.1	211.3	177.1	152.1	114.8	84.1	67.40	40.61	30.71	25.44	21.58	18.88	15.25	12.890	6.813
1.75V/cell	331.7	230.4	193.3	162.8	121.0	88.2	70.50	42.05	31.54	26.07	22.10	19.27	15.48	13.015	6.897
1.70V/cell	365.0	248.8	206.3	170.9	126.6	91.3	73.38	43.49	32.57	26.71	22.61	19.64	15.71	13.139	6.960
1.67V/cell	399.5	268.0	216.6	177.5	130.5	94.4	75.44	44.52	33.39	27.27	23.04	19.99	15.93	13.284	7.064
1.60V/cell	433.1	284.9	225.3	184.3	134.0	97.7	77.30	45.55	34.22	27.81	23.46	20.28	16.14	13.450	7.085

动力电池

储能电池

备用电池

摩托车电池



阀控式免维护铅酸蓄电池 - 通用型

TN12-65

(12V 65Ah)

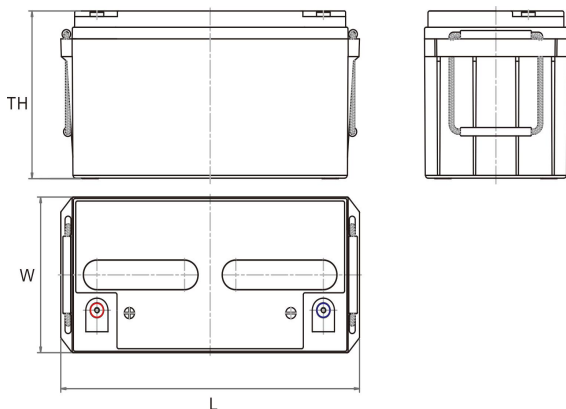
产品特点

- ◆ 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
- ◆ 在25°C下，产品浮充设计寿命为7~9年，优良的深放电恢复能力
- ◆ 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	350±2mm
宽	167±2mm
高	180±3mm
总高	180±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
- ◆ 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

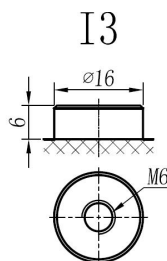
端子类型

单位:mm

端子类型 I3

重量

21kg 46.3lbs



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



TN12-65

规格书

额定电压	12V	
容量(25°C)	69Ah	20hr Rate (1.80V/cell)
	65Ah	10hr Rate (1.80V/cell)
	57Ah	5hr Rate (1.75V/cell)
	50Ah	3hr Rate (1.70V/cell)
	40Ah	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	19.5A (0.3C)	
最大放电电流 (5S)	780A	
电阻	7.3mΩ	
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	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	118.7	91.2	78.6	68.3	52.9	39.9	32.30	19.53	14.99	12.43	10.60	9.23	7.47	6.269	3.381
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1.60V/cell	218.7	143.9	113.8	93.1	67.7	50.0	39.59	23.33	17.52	14.24	12.01	10.34	8.22	6.793	3.578

恒功率放电表 (25°C/77°F) 单位: W															
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	235.0	180.6	155.6	135.2	104.7	77.9	63.07	38.13	29.27	24.28	20.70	18.12	14.66	12.413	6.695
1.80V/cell	294.1	211.3	177.1	152.1	114.8	84.1	67.40	40.61	30.71	25.44	21.58	18.88	15.25	12.890	6.813
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1.67V/cell	399.5	268.0	216.6	177.5	130.5	94.4	75.44	44.52	33.39	27.27	23.04	19.99	15.93	13.284	7.064
1.60V/cell	433.1	284.9	225.3	184.3	134.0	97.7	77.30	45.55	34.22	27.81	23.46	20.28	16.14	13.450	7.085