

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Industry Reserve Battery- TNF Series (Front Terminal)

TNF12-100

(12V 100Ah)

GENERAL FEATURES

- ◆ Oxygen recombination technology: Maintenance Free VRLA battery, no need to add water or acid during application
- ◆ The patent grid alloy: less gassing, low self-discharge
- ◆ Design life is 12 years at 25°C under standby application
- ◆ 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)

Application

- ◆ For standard 19", 21" and 23" cabinet or rack
- ◆ Network connection equipment of communication system
- ◆ Power system of special network or localarea network
- ◆ UPS, standby power supply
- ◆ Power station system
- ◆ Railway and marine systems

Dimension

Unit:mm

Length 394±2mm / 15.51inch

Width 110±2mm / 4.33inch

Container Height 285±3mm / 11.22inch

Total Height 285±3mm / 11.22inch

Terminal

Unit:mm

Terminal Type: I4

Weight

31.2kg 68.78lbs



ISO9001 ISO14001 OHSAS18001

This document is subject to change without prior notification

Motive Battery Energy Storage Battery Reserve Battery Motorcycle Battery

TNF12-100

Specificaion

Nominal Voltage	12V	
Rated Capacity(25°C)	106Ah	20hr Rate(1.80V/cell)
	100Ah	10hr Rate(1.80V/cell)
	87Ah	5hr Rate(1.75V/cell)
	80Ah	3hr Rate(1.70V/cell)
	65Ah	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	30A (0.3C)	
Max. Discharge Current (5'	1000A	
Internal Resistance	4.3mΩ	
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	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	144.7	127.3	114.1	91.7	71.2	57.46	34.03	24.82	19.92	16.72	14.51	11.51	9.570	5.075
1.80V/cell	168.2	146.9	127.3	99.7	75.4	60.36	35.24	25.73	20.52	17.22	14.81	11.91	10.010	5.305
1.75V/cell	185.6	158.2	135.7	103.3	77.7	62.06	36.04	26.13	20.82	17.42	15.12	12.11	10.110	5.355
1.70V/cell	197.6	165.8	141.1	106.5	79.3	63.16	36.54	26.53	21.12	17.62	15.32	12.21	10.210	5.385
1.67V/cell	206.6	171.4	144.1	108.9	80.9	64.46	37.04	26.73	21.32	17.82	15.42	12.31	10.310	5.415
1.60V/cell	215.6	176.2	148.3	111.5	82.5	65.37	37.44	27.03	21.52	18.12	15.62	12.51	10.410	5.445

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	270.3	240.1	217.4	176.6	138.1	112.01	66.67	48.95	39.34	33.13	28.73	22.92	19.119	10.110
1.80V/cell	310.3	273.5	239.0	189.1	145.3	117.02	68.57	50.45	40.34	33.93	29.33	23.62	20.020	10.611
1.75V/cell	337.0	290.8	252.4	194.4	148.2	119.72	69.87	51.05	40.74	34.23	29.73	23.92	20.220	10.711
1.70V/cell	350.9	300.5	260.5	199.3	150.8	121.52	70.67	51.65	41.24	34.43	30.03	24.22	20.320	10.711
1.67V/cell	365.5	309.4	265.0	203.3	153.4	123.72	71.57	51.95	41.54	34.83	30.23	24.42	20.521	10.811
1.60V/cell	370.8	311.8	268.9	205.5	154.7	124.22	71.77	52.25	41.74	35.24	30.63	24.62	20.721	10.811

动力电池

储能电池

备用电池

摩托车电池



工业备用电池-TNF系列（前置端子）

TNF12-100

(12V 100Ah)

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
- ◆ 25°C温度下，在备用系统中使用寿命可长达12年
- ◆ 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）

产品应用

- ◆ 适用于标准19"，21"和23"的机柜或机架
- ◆ 网络通讯系统
- ◆ 电力系统专用网或局域网
- ◆ 不间断电源系统，备用系统
- ◆ 电力站系统
- ◆ 铁路及航运系统

尺寸

单个尺寸

长	394±2mm
宽	110±2mm
高	285±3mm
总高	285±3mm

端子类型

单位:mm

端子类型 14

重量

31.2kg 68.78lbs



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



TNF12-100

规格书

额定电压	12V	
容量(25°C)	106Ah	20hr Rate(1.80V/cell)
	100Ah	10hr Rate(1.80V/cell)
	87Ah	5hr Rate(1.75V/cell)
	80Ah	3hr Rate(1.70V/cell)
	65Ah	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	30A (0.3C)	
最大放电电流 (5S)	1000A	
电阻	4.3mΩ	
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	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	144.7	127.3	114.1	91.7	71.2	57.46	34.03	24.82	19.92	16.72	14.51	11.51	9.570	5.075
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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	270.3	240.1	217.4	176.6	138.1	112.01	66.67	48.95	39.34	33.13	28.73	22.92	19.119	10.110
1.80V/cell	310.3	273.5	239.0	189.1	145.3	117.02	68.57	50.45	40.34	33.93	29.33	23.62	20.020	10.611
1.75V/cell	337.0	290.8	252.4	194.4	148.2	119.72	69.87	51.05	40.74	34.23	29.73	23.92	20.220	10.711
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1.60V/cell	370.8	311.8	268.9	205.5	154.7	124.22	71.77	52.25	41.74	35.24	30.63	24.62	20.721	10.811