

Motive Battery

Energy Storage Battery

Reserve Battery

Motorcycle Battery



Industry Reserve Battery- TNF Series (Front Terminal)

TNF12-80

(12V 80Ah)

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 local area network
- ♦ UPS, standby power supply
- ♦ Power station system
- ♦ Railway and marine systems

Dimension

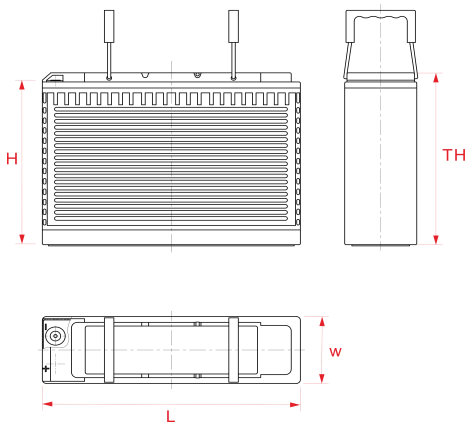
Unit:mm

Length 394±2mm / 15.51inch

Width 110±2mm / 4.33inch

Container Height 285±3mm / 11.22inch

Total Height 285±3mm / 11.22inch



Terminal

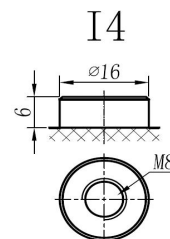
Unit:mm

Terminal Type: I4

Weight

27kg

59.52lbs



This document is subject to change without prior notification

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TNF12-80

Specificaion

Nominal Voltage	12V	
Rated Capacity(25°C)	85Ah	20hr Rate(1.80V/cell)
	80Ah	10hr Rate(1.80V/cell)
	70Ah	5hr Rate(1.75V/cell)
	64Ah	3hr Rate(1.70V/cell)
	52Ah	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	24A (0.3C)	
Max. Discharge Current (5'	850A	
Internal Resistance	4.7mΩ	
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	115.8	101.9	91.3	73.4	56.9	45.97	27.23	19.86	15.94	13.37	11.61	9.21	7.656	4.060
1.80V/cell	134.5	117.6	101.9	79.8	60.3	48.29	28.19	20.58	16.42	13.77	11.85	9.53	8.008	4.244
1.75V/cell	148.5	126.5	108.6	82.6	62.1	49.65	28.83	20.90	16.66	13.93	12.09	9.69	8.088	4.284
1.70V/cell	158.1	132.6	112.9	85.2	63.4	50.53	29.23	21.22	16.90	14.09	12.25	9.77	8.168	4.308
1.67V/cell	165.3	137.1	115.3	87.1	64.7	51.57	29.63	21.38	17.06	14.25	12.33	9.85	8.248	4.332
1.60V/cell	172.5	140.9	118.7	89.2	66.0	52.29	29.95	21.62	17.22	14.49	12.49	10.01	8.328	4.356

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	216.2	192.1	173.9	141.3	110.5	89.61	53.33	39.16	31.47	26.51	22.98	18.34	15.295	8.088
1.80V/cell	248.2	218.8	191.2	151.3	116.3	93.61	54.85	40.36	32.27	27.15	23.46	18.90	16.016	8.488
1.75V/cell	269.6	232.6	201.9	155.5	118.6	95.78	55.90	40.84	32.59	27.39	23.78	19.14	16.176	8.569
1.70V/cell	280.7	240.4	208.4	159.4	120.6	97.22	56.54	41.32	32.99	27.55	24.02	19.38	16.256	8.569
1.67V/cell	292.4	247.5	212.0	162.6	122.7	98.98	57.26	41.56	33.23	27.87	24.18	19.54	16.416	8.649
1.60V/cell	296.6	249.4	215.1	164.4	123.7	99.38	57.42	41.80	33.39	28.19	24.50	19.70	16.577	8.649

☐ 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）

TNF12-80

(12V 80Ah)

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）



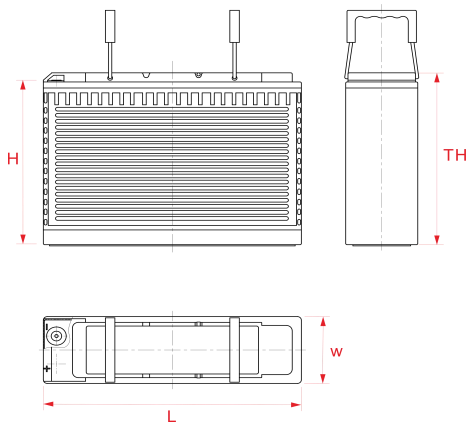
产品应用

- ◆ 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



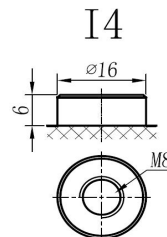
端子类型

单位:mm

端子类型 I4

重量

27kg 59.52lbs



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



TNF12-80

规格书

额定电压	12V	
容量(25°C)	85Ah	20hr Rate(1.80V/cell)
	80Ah	10hr Rate(1.80V/cell)
	70Ah	5hr Rate(1.75V/cell)
	64Ah	3hr Rate(1.70V/cell)
	52Ah	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	24A (0.3C)	
最大放电电流 (5S)	850A	
电阻	4.7mΩ	
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	115.8	101.9	91.3	73.4	56.9	45.97	27.23	19.86	15.94	13.37	11.61	9.21	7.656	4.060
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1.60V/cell	172.5	140.9	118.7	89.2	66.0	52.29	29.95	21.62	17.22	14.49	12.49	10.01	8.328	4.356

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	216.2	192.1	173.9	141.3	110.5	89.61	53.33	39.16	31.47	26.51	22.98	18.34	15.295	8.088
1.80V/cell	248.2	218.8	191.2	151.3	116.3	93.61	54.85	40.36	32.27	27.15	23.46	18.90	16.016	8.488
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