■ Motive Battery

Energy Storage Battery



Reserve Battery

Motorcycle Battery

Maintenance Free VRLA AGM Battery - Long Life Type

ΓNL2-500

(2V 500Ah)

GENERAL FEATURES

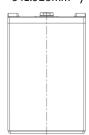
- Cycle or standby (or float) application
- Design life is 12~16 years at 25°C under standby application, deep discharge recoverability
- It has safety, low resistance so recharge is easy and energy output is more remarkable
- Deep discharge recoverability
- Strictly manufacture process control and high consistency
- ISO9001, ISO14001 certified
- UL, IEC60896-21&22, TLC, CE and European council Directive 2006/66/EC and its amendment (2008/12/EC) certification

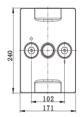
Dimension

Unit:mm

Length 240±2mm / 9.45inch Width 170±2mm / 6.69inch **Container Height** 330±3mm / 12.99inch **Total Height** 341.5±3mm / 13.44inch

















Application

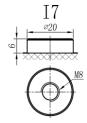
- Uninterrupted Power Supply (UPS)
- Communications and electric equipment
- Emergency lighting equipment
- Fire alarm and security system
- Robots, control equipment, and other factory automation equipment
- Emergency power supply (EPS)
- Portable VTR/TV, radio and so on
- Power tools, lawn mowers,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

Terminal	
Unit:mm	

Terminal Type 17



30.5kg 67.24lbs



This document is subject to change without prior notification

Tianneng Battery Group Co., Ltd.

Changxing Tianying Import & Export Co., Ltd.

V2.0

Motive Battery





Reserve Battery

Motorcycle Battery

TNL2-500

Specificaion							
Nominal Voltage		2V					
		535Ah 20hr Rate(1.80V/cell)					
		500Ah 10hr Rate(1.80V/cell)					
Rated Capacity(25°C)		450Ah 5hr Rate(1.75V/cell)					
		404Ah 3hr Rate(1.70V/cell)					
		305Ah 1hr Rate(1.60V/cell)					
Container Material		ABS (Flame-retardant ABS UL94-V0 is optional)					
Operating	Discharge	-20 ~ +50°C					
Temperature Range	Charge	0 ~ +40°C					
	Storage	-15 ~ +40°C					
	40°C / 104°F	106%					
Capacity Effected by	25°C / 77°F	100%					
Temperature	0°C / 32°F	86%					
	-10°C / 14°F	65%					
	Float Voltage	2.23 -2.27V/cell@25°C, Tem.Coefficient : -3mV/cell/°C					
Charge	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	150A (0.3C)					
Max. Discharge Current (5S)		4000A					
Internal Resistance		0.6mΩ					
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	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	375.6	305.3	254.56	157.83	120.48	98.46	83.84	72.92	58.38	48.248	25.826
1.80V/cell	403.0	321.2	266.23	164.94	126.37	102.92	87.39	76.15	60.90	50.000	26.727
1.75V/cell	426.7	337.8	277.70	171.54	130.63	106.37	90.03	77.97	62.01	50.751	26.827
1.70V/cell	447.7	350.4	287.45	178.44	134.69	108.71	91.65	79.29	63.13	51.351	27.127
1.67V/cell	469.7	365.7	297.80	184.22	137.74	111.04	93.58	80.70	64.03	51.952	27.427
1.60V/cell	/	375.6	304.80	187.78	140.07	112.56	94.90	81.81	65.04	52.653	27.628

Constant Power Discharge Table (25°C/77°F) Unit: W											
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	717.7	578.9	485.59	302.80	232.13	190.49	162.96	142.74	114.71	95.896	51.351
1.80V/cell	763.9	605.1	505.00	314.91	242.44	198.30	168.97	148.55	119.32	99.399	53.053
1.75V/cell	8.2	632.4	524.52	326.13	249.85	204.40	173.67	151.55	121.42	100.601	53.253
1.70V/cell	835.2	651.8	540.04	337.74	256.66	208.01	176.08	154.05	123.42	101.702	53.854
1.67V/cell	869.7	676.3	556.36	347.35	261.26	211.71	179.28	156.16	124.92	102.703	54.354
1.60V/cell	/	688.0	565.46	351.45	264.46	213.71	181.08	157.86	126.53	104.004	54.655

Release Date:

V2.0