

**DATA SHEET**
**NE 1227**

**MODEL :** NE 1227  
**VOLTAGE :** 12  
**MATERIAL :** Polypropylene  
**DIMENSIONS :** Millimetres (mm)  
**NUMBER OF CYCLES :** 400~600 @ 100%DOD  
**BATTERY :** EV Battery  
**ENERGY DENSITY :** ↑10%  
**GRID CORROSION :** ↓50%  
**ACID SATISFACTION :** 0%


**12 VOLT**
**PHYSICAL SPECIFICATIONS**

MODEL	DIMENSIONS (MM/INCH)				WEIGHT (KG/LBS)	TERMINAL	CONTAINER
	L	W	H	Total Height			
TNE12-27	181/7.13	77/3.03	170/6.69	175/6.89	6.80/14.99	I10	ABS UL94-HB (Optional: FR ABS UL94-V0)

**PRODUCT SPECIFICATIONS**

NOMINAL VOLTAGE	RATED CAPACITY 25°C/77°F	OPREATING TEMP.RANGE	CAPACITY EFFECTED TEMP	CAPACITY VS STORAGE TIME
12V	27Ah 20hr Rate (1.80V/cell) 25.0Ah 10hr Rate (1.75V/cell) 23.5Ah 5hr Rate (1.75V/cell) 22.3Ah 2hr Rate (1.75V/cell)	Discharge:-15°C~50°C (5°F~122°F) Charge:0°C~40°C (32°F~104°F) Storage:-15°C~40°C (5°F~104°F) Optimum:25°C±3°C (77°F±5°F)	40°C (104°F):106% 25°C (77°F):100% 0°C (32°F):90% -15°C (5°F):76%	Three months : 90% Six months : 80% Nine months : 60%

**CONSTANT CURRENT DISCHARGE (A)@25°C (77°F)**

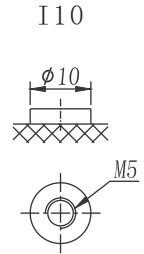
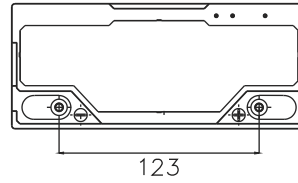
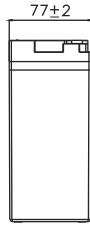
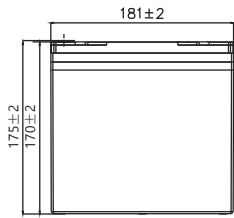
F.V/TIME	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	30.4	21.7	17.2	10.1	6.95	5.25	4.25	3.67	2.90	2.39	1.31
1.80V/cell	31.4	22.3	17.7	10.5	7.10	5.42	4.42	3.81	2.98	2.45	1.35
1.75V/cell	32.3	23.2	18.4	11.2	7.49	5.67	4.70	4.00	3.07	2.50	1.38
1.70V/cell	33.2	23.8	19.0	11.3	7.64	5.81	4.74	4.08	3.14	2.57	1.41
1.68V/cell	33.9	24.6	19.7	11.5	7.75	5.95	4.88	4.16	3.21	2.61	1.42
1.60V/cell	34.8	25.2	20.1	11.8	8.02	6.12	4.95	4.27	3.29	2.70	1.43

**CONSTANT POWER DISCHARGE (W/cell)@25°C (77°F)**

F.V/TIME	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	59.4	42.7	34.0	20.2	13.9	10.6	8.58	7.42	5.87	4.85	2.66
1.80V/cell	61.1	43.7	34.9	20.8	14.2	10.9	8.88	7.67	6.01	4.96	2.74
1.75V/cell	62.7	45.3	36.1	22.1	14.9	11.3	9.40	8.01	6.16	5.04	2.78
1.70V/cell	63.9	46.1	37.1	22.3	15.1	11.5	9.43	8.12	6.28	5.14	2.83
1.68V/cell	64.8	47.3	38.2	22.4	15.2	11.7	9.64	8.24	6.36	5.19	2.84
1.60V/cell	66.0	48.2	38.6	23.0	15.6	12.0	9.70	8.38	6.48	5.32	2.85

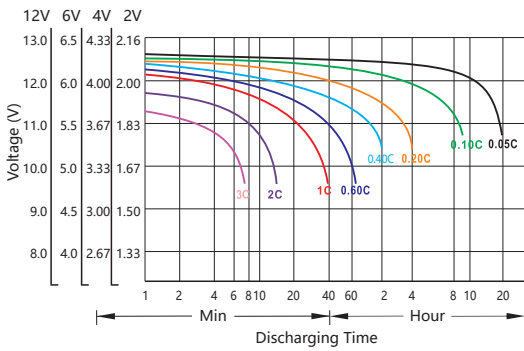


BATTERY DIMENSIONS (mm)

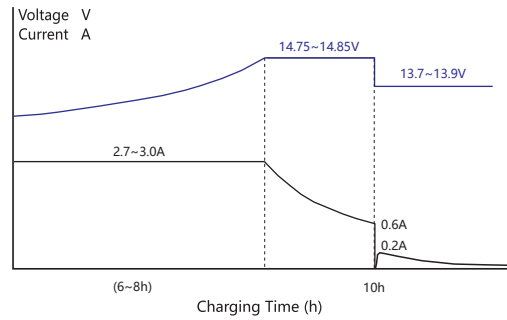


ELECTRICAL CHARACTERISTICS

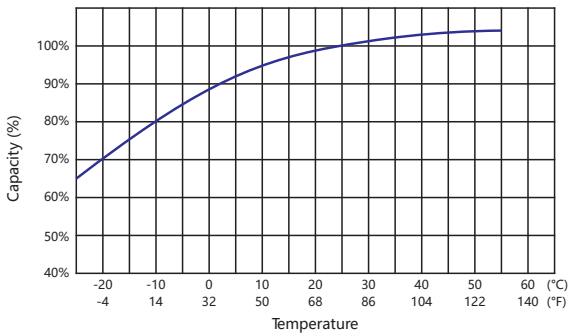
Discharging Characteristics@25°C(77°F)



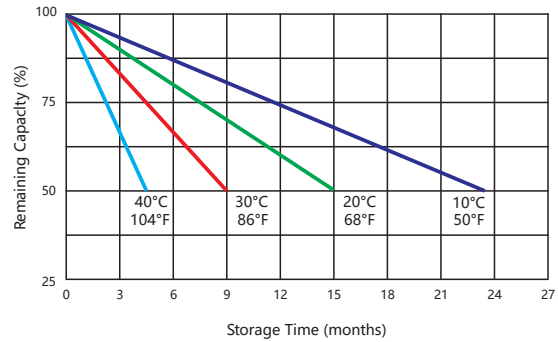
Charging Characteristics@25°C(77°F)



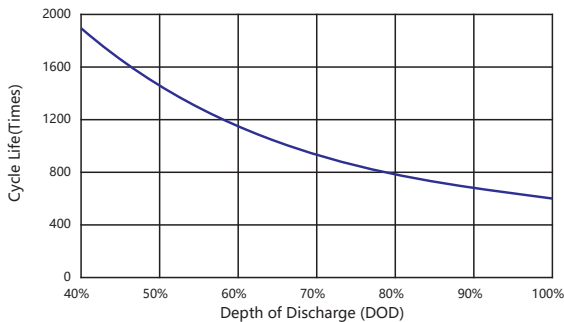
Capacity vs Temperature



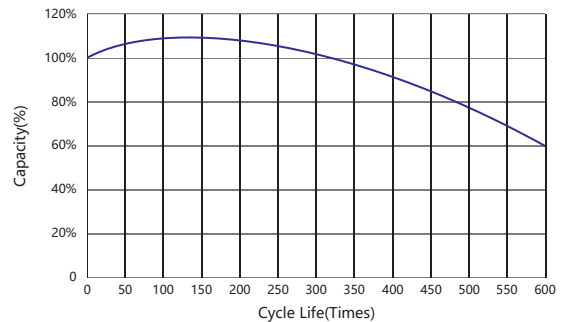
Self-discharge vs Time



Cycle Life vs Depth of Discharge@25°C(77°F)



Cycle Life vs Remaining Capacity@25°C(77°F)





**USAGE AND MAINTENANCE**

LIMITED CURRENT	LIMITED VOLTAGE	FLEATING VOLTAGE
Limited current: $\leq 0.2C_7A$	14.75V~14.85V@25°C(77°F) Temp.Coefficient:- 24mV/°C	13.7V~13.9V@25°C(77°F) Temp.Coefficient:- 18mV/°C

**PRODUCT APPLICATIONS**



Electric Motorcycle



Electric Tricycle



Wheelchair



E-scooter



Sweeper



Kid's Electric Bike



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