TNEH12-15 [12V15Ah]

TIANNENG



Product Features

Deep Cycle Black Gold Series 500~600 Cycle Times @100%DOD

	Carbon Fiber	Graphene	Rare-earth alloy
↑20% Cycle Life Three advanced material	↑10% Discharge Power Positive Carbon Fiber	↑5% Low Temp. Capacity Negative graphene formula	↓50% Grid Corrosion Rare-earth patent alloy

Product Applications



Moped | Electric Two-wheeler | Electric Motorcycle | E-scooter | Kid's Electric Bike

Physical Specification

Model	Dimensions (mm/inch)				Weight(kg/lbs) ±3%	Terminal	Container
	Length	Width	Height	Total Height			
TNEH12-15	151/5.94	99/3.90	98/3.86	104/4.09	4.22/9.30	I9	ABS UL94-HB (Optional: FR ABS UL94-V0)

Product Specifications

Nominal Voltage	Rated Capacity 25℃/77℉	Opreating Temp.Range	Capacity Effected Temp	Capacity vs Storge Time (25℃/77℉)
12V	15Ah 20hr Rate (1.80V/cell) 14.3Ah 10hr Rate (1.75V/cell) 13.7Ah 5hr Rate (1.75V/cell) 13.2Ah 2hr Rate (1.75V/cell)	Discharge: -15~50℃ (5~122℉) Charge: 0~40℃ (32~104℉) Storage: -15~40℃ (5~104℉) Optimum: 25±3℃ (77±5℉)	40℃ (104℉): 106% 25℃ (77℉): 100% 0℃ (32℉): 90% -15℃ (5℉): 76%	Three months : 90% Six months : 80%

Constant Current Discharge (A)@25℃ (77℉)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	16.9	12.1	9.6	6.0	4.09	3.08	2.49	2.13	1.66	1.36	0.73
1.80V/cell	17.5	12.4	9.8	6.2	4.19	3.18	2.59	2.21	1.71	1.40	0.75
1.75V/cell	18.0	12.9	10.2	6.6	4.42	3.34	2.74	2.32	1.77	1.43	0.76
1.70V/cell	18.4	13.2	10.5	6.7	4.51	3.42	2.78	2.36	1.81	1.47	0.78
1.68V/cell	18.8	13.6	10.9	6.8	4.57	3.49	2.84	2.41	1.84	1.49	0.79
1.60V/cell	19.3	14.0	11.1	7.0	4.72	3.58	2.89	2.46	1.88	1.53	0.79

Constant Power Discharge (W/cell)@25℃ (77℉)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	33.0	23.7	18.9	12.0	8.2	6.2	5.03	4.31	3.37	2.76	1.48
1.80V/cell	34.0	24.3	19.4	12.3	8.4	6.4	5.20	4.45	3.45	2.83	1.52
1.75V/cell	34.8	25.2	20.1	13.1	8.8	6.7	5.49	4.65	3.55	2.89	1.54
1.70V/cell	35.5	25.6	20.6	13.2	8.9	6.8	5.52	4.71	3.61	2.94	1.57
1.68V/cell	36.0	26.3	21.2	13.3	9.0	6.9	5.6	4.76	3.65	2.97	1.58
1.60V/cell	36.6	26.8	21.4	13.6	9.2	7.0	5.7	4.84	3.71	3.03	1.58

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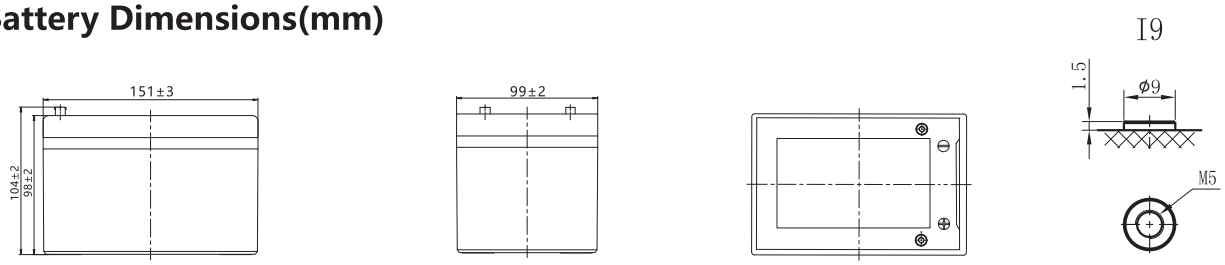
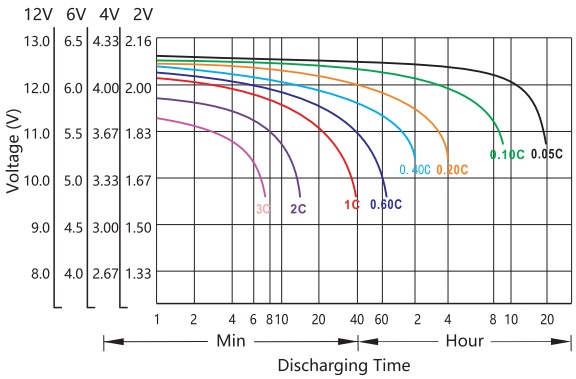
Battery Dimensions(mm)

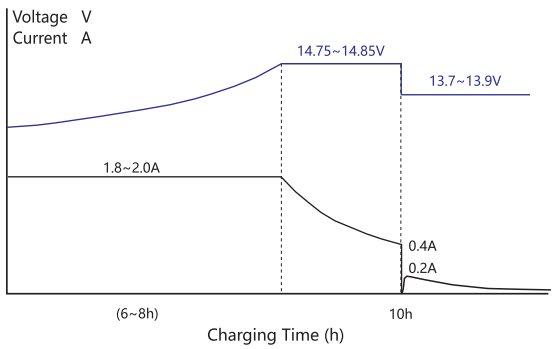


Electrical Characteristics

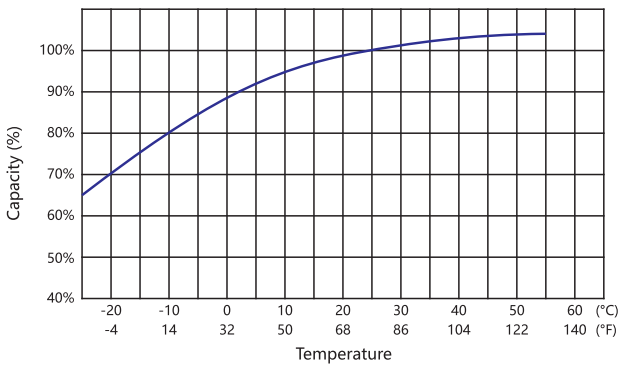
Discharging Characteristics@25℃(77℉)



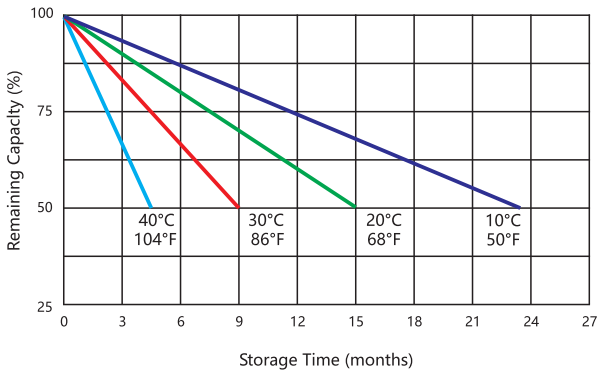
Charging Characteristics@25℃(77℉)



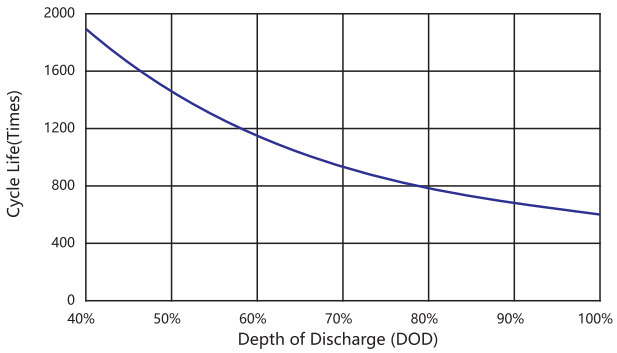
Capacity vs Temperature



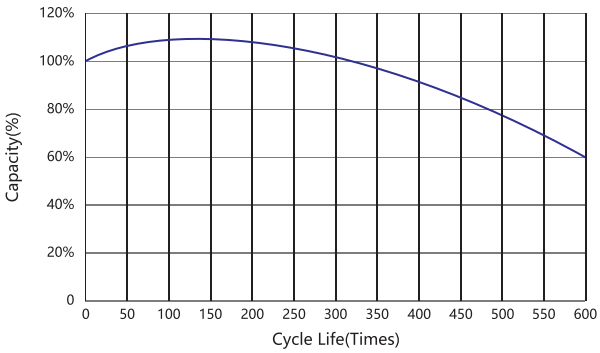
Self-discharge vs Time



Cycle Life vs Depth of Discharge@25℃(77℉)



Cycle Life vs Remaining Capacity@25℃(77℉)



Usage and Maintenance

Limited Current	Limited Voltage	Floating Voltage
Limited current: ≤0.15C₂A	14.6V~14.8V @25℃(77℉) Temp.Coefficient: -24mV/℃	13.6V~13.8V @25℃(77℉) Temp.Coefficient:-18mV/℃

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