

Product Features



Deep Cycle Long Life Series 400~600 Cycle Times @100%DOD		
↑10% Capacity Improve the content and utilization of active substances, Direct Bar-welding	Carbon Fiber	Rare-earth alloy
	↑15% Discharge Power Positive Carbon Fiber	↓50% Grid Corrosion Rare-earth patent alloy

Product Applications



Physical Specification

Model	Dimensions (mm/inch)				Weight (±5%kg/lbs)	Terminal	Container
TNEP6-290	Length	Width	Height	Total Height	36/79.4	17	ABS UL94-HB (Optional: FR ABS UL94-V0)
	260/10.2	180/7.09	270/10.6	275/10.8			

Product Specifications

Nominal Voltage	Rated Capacity ^{25°C/77°C}	Operating Temp.Range	Capacity Effected Temp	Capacity vs Storage Time
6V	290Ah 20hr Rate (1.80V/cell) 261Ah 10hr Rate (1.75V/cell) 246Ah 5hr Rate (1.75V/cell) 231Ah 3hr 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±2°C (77°F±5°F)	40°C (104°F):106% 25°C (77°F):100% 0°C (32°F):85% -15°C (5°F):65%	Three months : 90% Six months : 80% Nine months : 60%

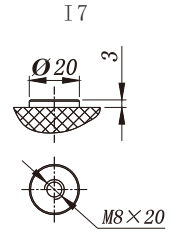
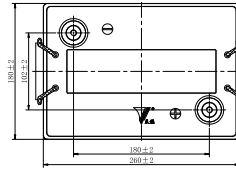
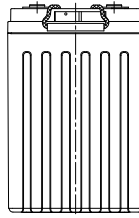
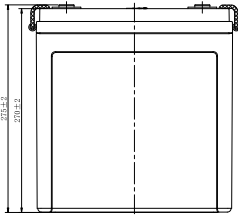
Constant Current Discharge (A)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	311	222	177	102	71.6	56.6	46.3	39.4	30.4	24.9	14.0
1.80V/cell	322	228	183	105	74.3	58.3	48.1	40.9	31.3	25.5	14.5
1.75V/cell	331	237	190	112	77.1	60.4	49.2	41.7	32.2	26.1	14.8
1.70V/cell	339	243	196	113	78.8	62.5	51.2	43.8	32.9	26.7	15.1
1.67V/cell	346	251	203	115	79.8	63.1	52.4	44.0	33.7	27.2	15.2
1.60V/cell	355	258	207	118	82.6	65.0	53.6	45.3	34.5	28.1	15.4

Constant Power Discharge (W/cell)@25°C (77°F)

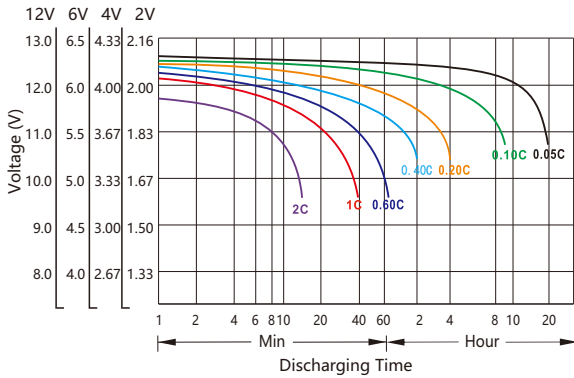
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	607	436	351	202	144	114	93.4	79.6	61.6	50.5	28.5
1.80V/cell	626	447	360	209	148	117	96.6	82.3	63.1	51.6	29.4
1.75V/cell	641	463	373	221	153	121	98.4	83.6	64.7	52.5	29.9
1.70V/cell	653	471	383	223	156	124	102	87.2	65.9	53.5	30.4
1.67V/cell	661	483	395	224	157	124	104	87.1	66.8	54.1	30.5
1.60V/cell	673	493	399	230	161	127	105	89.0	68.0	55.5	30.6

Battery Dimensions(mm)

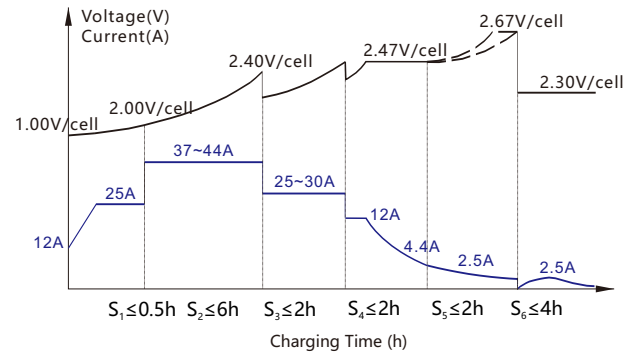


Electrical Characteristics

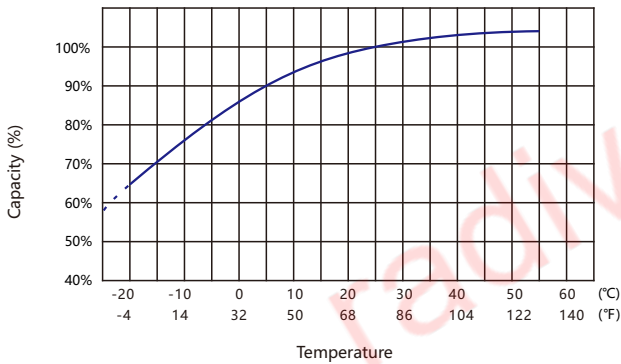
Discharging Characteristics@25°C(77°F)



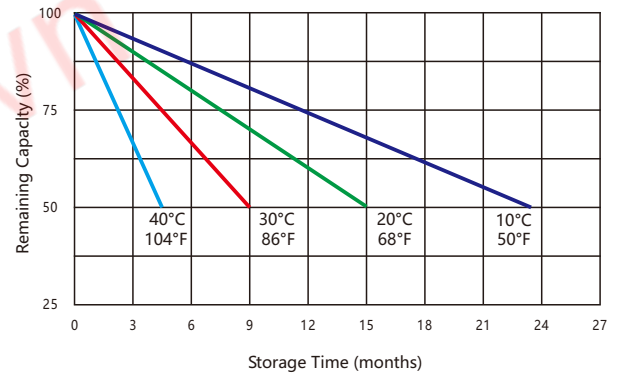
Charging Characteristics@25°C(77°F)



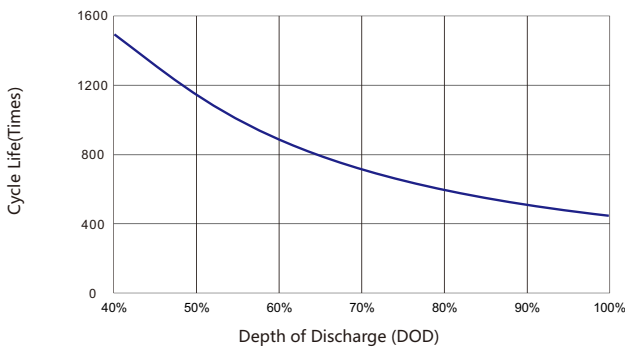
Capacity vs Temperature



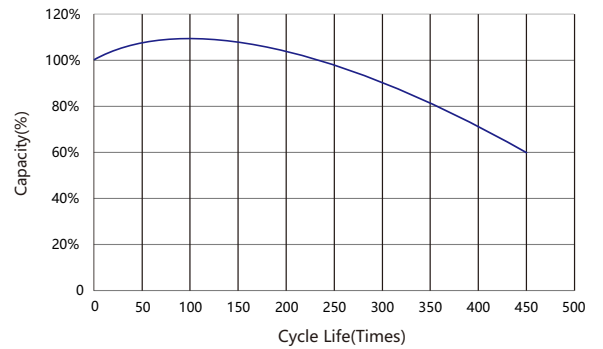
Self-discharge vs Time



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 current: $\leq 0.2C_3A$

Limited Voltage

7.2V~7.4V@25°C(77°F)
Temp.Coefficient:-12mV/°C

Floating Voltage

6.75V~6.90V@25°C(77°F)
Temp.Coefficient:-9mV/°C