

TNEP 6-220 [6V220Ah]



Product Features

GEL 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 (kg/lbs)	Terminal	Container
TNEP6-220	Length	Width	Height	Total Height	32.0/70.56	I7	ABS UL94-HB (Optional: FR ABS UL94-V0)
	260/10.2	180/7.09	245/9.65	251/9.88			

Product Specifications

Nominal Voltage	Rated Capacity 25°C/77°C	Operating Temp. Range	Capacity Effected Temp	Capacity vs Storage Time
6V	220Ah 20hr Rate (1.80V/cell) 200Ah 10hr Rate (1.75V/cell) 180Ah 5hr Rate (1.75V/cell) 165Ah 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): 72%	Three months : 90% Six months : 80% Nine months : 60%

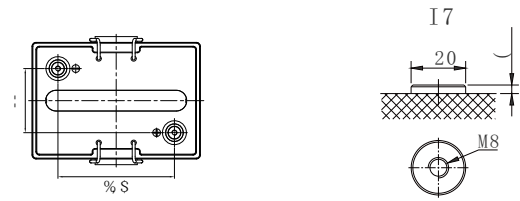
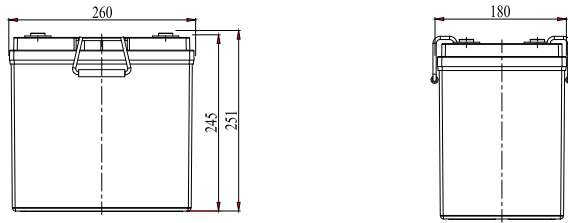
Constant Current Discharge (A)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	235.8	168.1	134.6	77.0	53.2	40.9	34.4	31.0	23.8	19.4	10.6
1.80V/cell	244.2	173.1	138.8	79.6	54.0	42.7	35.4	32.2	24.5	19.9	11.0
1.75V/cell	250.8	179.5	143.9	81.1	55.0	44.0	36.0	32.9	24.9	20.0	11.2
1.70V/cell	257.0	184.2	148.9	82.7	59.1	48.7	39.8	33.9	25.5	20.6	11.5
1.67V/cell	262.2	190.1	154.2	83.7	60.6	50.1	41.2	34.5	26.3	21.2	11.6
1.60V/cell	269.3	195.7	157.3	89.9	62.8	51.5	42.2	35.5	26.9	21.8	11.6

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

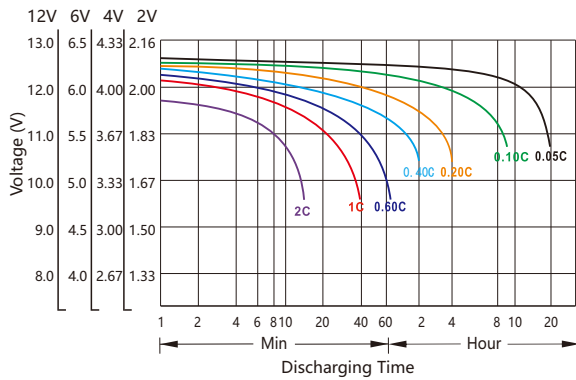
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	460.6	330.6	266.3	153.5	106.8	82.3	69.4	62.7	48.1	39.3	21.7
1.80V/cell	475.1	339.1	273.5	158.2	107.8	85.7	71.0	64.8	49.4	40.2	22.3
1.75V/cell	486.1	351.0	282.8	160.5	109.4	87.8	72.0	65.9	50.0	40.3	22.6
1.70V/cell	495.4	357.5	290.9	162.8	116.9	96.7	79.2	67.5	51.0	41.3	23.0
1.67V/cell	501.6	366.2	299.4	163.8	119.1	98.7	81.4	68.4	52.1	42.1	23.1
1.60V/cell	510.7	374.3	302.4	174.3	122.3	100.8	82.6	69.7	53.0	43.1	23.2

Battery Dimensions(mm)

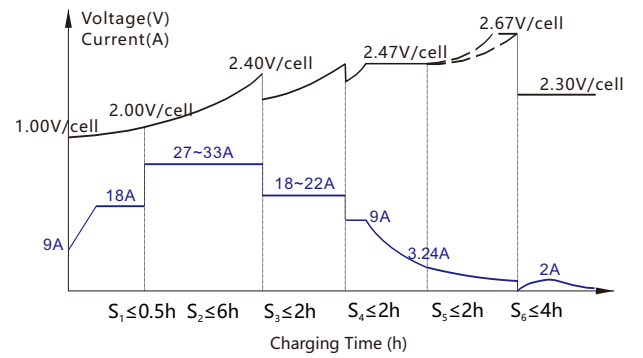


Electrical Characteristics

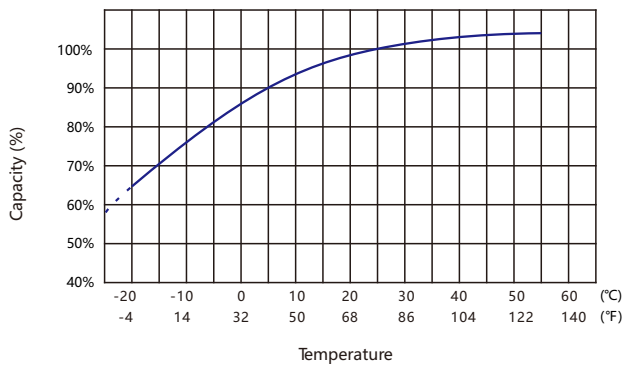
Discharging Characteristics@25°C(77°F)



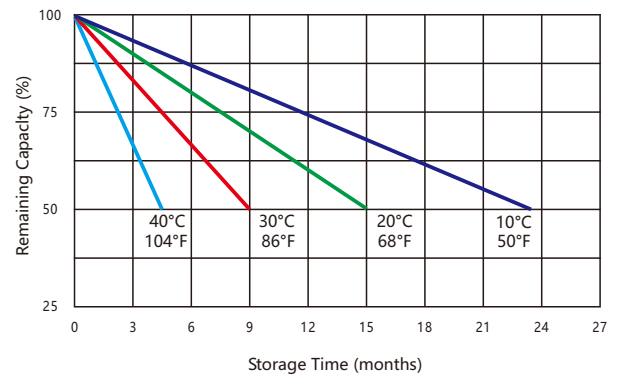
Charging Characteristics@25°C(77°F)



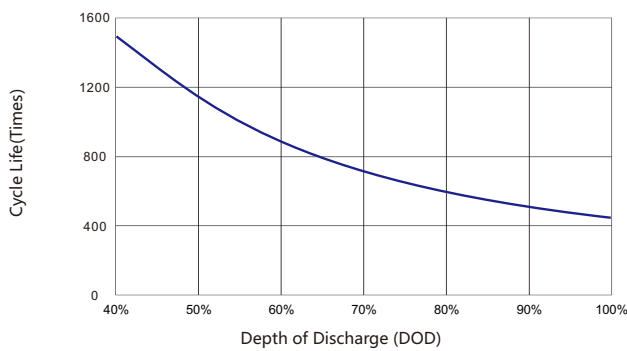
Capacity vs Temperature



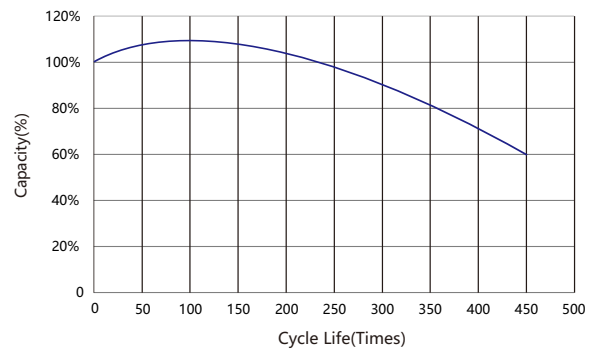
Self-discharge vs Time



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	Floating Voltage
Limited current: $\leq 0.2C_5A$	7.2V~7.4V@25°C(77°F) Temp.Coefficient:-12mV/°C	6.75V~6.90V@25°C(77°F) Temp.Coefficient:-9mV/°C