

TN12-200 [12V 200Ah]

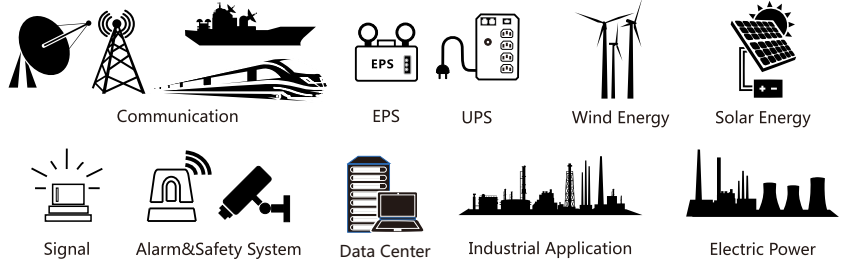


Product Features



General Purpose (AGM)		6~10 years of design life@25°C	
100%	Model Coverage Both Cycle & Float Application	↑98%	Capacity Retention High Purity Electrolyte
↑20%	Charge Acceptance Special Negative Additive	↓50%	Grid Corrosion Rare-earth patent alloy

Product Applications



Physical Specifications

Model	Dimensions (mm/inch)				Weight (kg/lbs)	Terminal	Container
TN12-200	Length	Width	Height	Total Height	60/132.3	I7	ABS UL94-HB (Optional: FR ABS UL94-V0)
	520/20.5	239/9.41	220/8.66	225/8.86			

Product Specifications

Nominal Voltage	Rated Capacity@25°C/77°F	Internal Resistance	Max. Discharge Current	Operating Temp. Range
12V	212Ah 20hr Rate (1.80V/cell) 200Ah 10hr Rate (1.80V/cell) 175Ah 5hr Rate (1.75V/cell) 159Ah 3hr Rate (1.70V/cell)	2mΩ@25°C/77°F	1440A (5s)	Discharge:-15~50°C (5~122°F) Charge:0~40°C (32~104°F) Storage:-15~40°C (5~104°F) Optimum:25±2°C (77±4°F)

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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	394	312	271	235	179	136	113	67.2	49.1	39.0	32.9	28.8	23.2	19.5	10.4
1.80V/cell	479	365	305	256	190	144	118	70.1	51.1	40.8	34.3	29.9	23.9	20.0	10.6
1.75V/cell	555	401	332	271	200	151	123	71.9	52.3	41.5	35.0	30.6	24.4	20.4	10.8
1.70V/cell	617	433	346	282	210	156	127	73.1	53.1	42.4	35.6	31.1	24.8	20.8	11.0
1.67V/cell	650	456	360	293	217	160	130	74.6	53.9	43.2	36.2	31.5	25.1	21.1	11.2
1.60V/cell	696	483	378	308	228	166	133	75.8	54.8	43.7	36.8	31.8	25.3	21.4	11.4

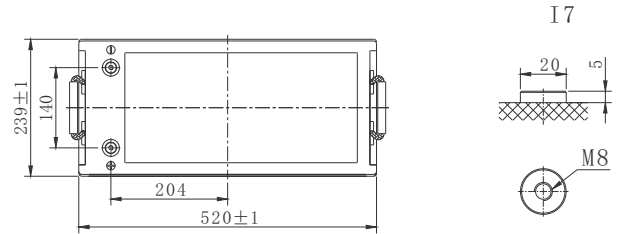
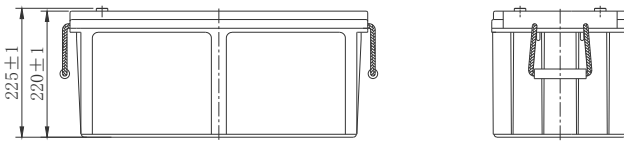
Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	733	591	521	455	352	269	224	135	99.3	79.2	67.1	58.9	47.6	40.0	21.4
1.80V/cell	890	689	583	494	372	285	235	140	103	82.5	69.7	60.9	48.9	40.9	21.7
1.75V/cell	1030	755	631	523	392	298	243	144	105	83.9	71.0	62.2	49.8	41.7	22.1
1.70V/cell	1142	812	656	541	410	307	250	146	106	85.3	72.0	62.9	50.5	42.3	22.5
1.67V/cell	1200	853	681	561	422	315	256	148	108	86.6	72.9	63.5	50.8	42.8	22.8
1.60V/cell	1280	899	713	586	441	325	260	150	109	87.4	73.9	64.1	51.1	43.2	23.2

TN12-200 [12V 200Ah]

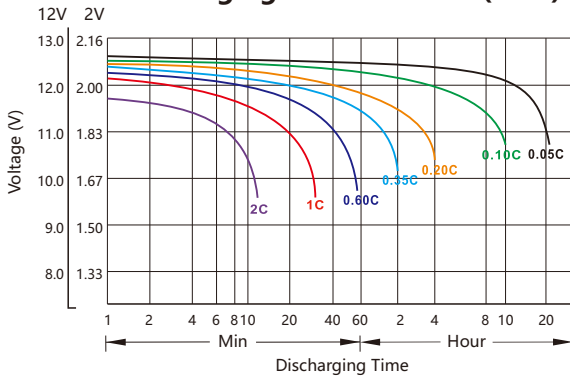


Battery Dimensions(mm)

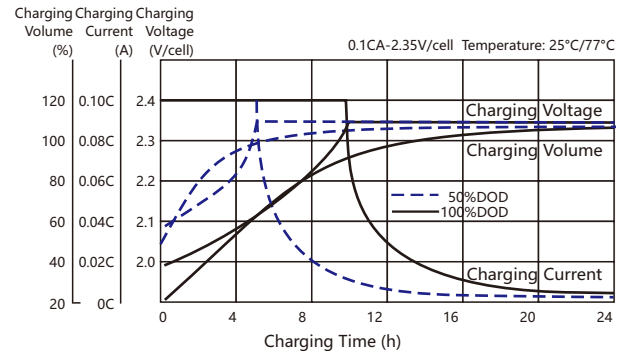


Electrical Characteristics

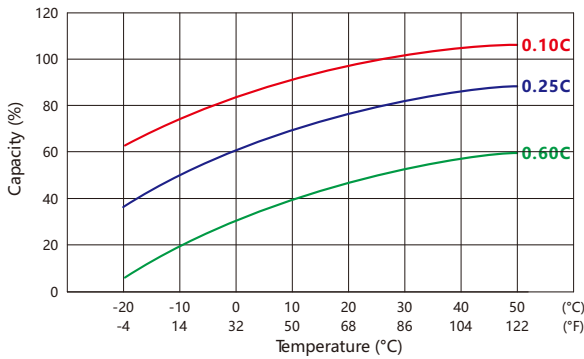
Discharging Characteristics(25°C)



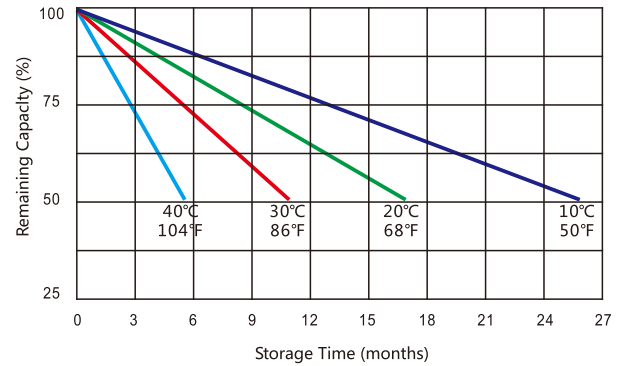
Charging Characteristics(25°C)



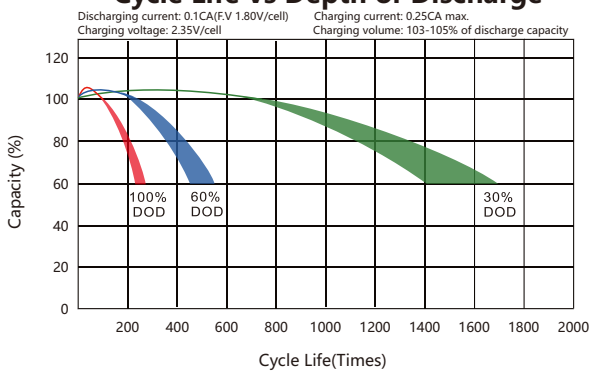
Capacity vs Temperature



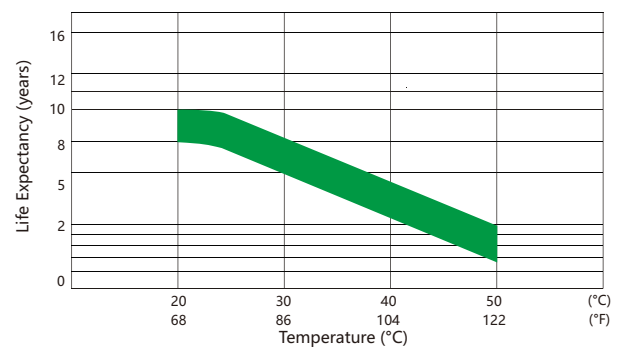
Self-discharge vs Time



Cycle Life vs Depth of Discharge



Floating Life vs Temperature



Usage and Maintenance

Charge Current	Equalization Charge	Float Charge
Limited current : $\leq 0.25 C_{10}A$	Constant Voltage: 14.1~14.4V@25°C(77°F) Temp.Coefficient:-24mV/°C	Constant Voltage: 13.5~13.8V@25°C(77°F) Temp.Coefficient:-18mV/°C