

TN12-100 [12V 100Ah]

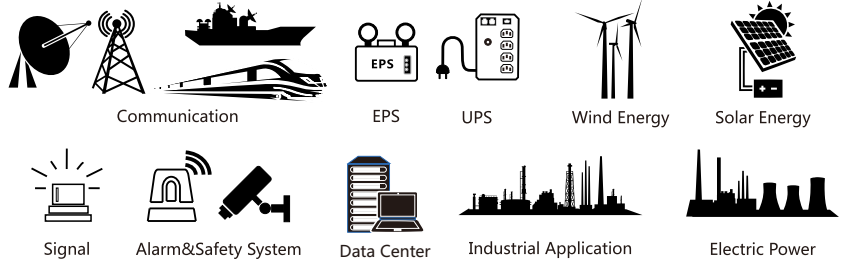


Product Features



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
TN12-100	Length	Width	Height	Total Height	30.0/66.1	I7	ABS UL94-HB (Optional: FR ABS UL94-V0)
	330/13.0	172/6.77	214/8.43	221.5/8.72			

Product Specifications

Nominal Voltage	Rated Capacity@25°C/77°F	Internal Resistance	Max. Discharge Current	Operating Temp. Range
12V	106Ah 20hr Rate (1.80V/cell) 100Ah 10hr Rate (1.80V/cell) 87.5Ah 5hr Rate (1.75V/cell) 79.5Ah 3hr Rate (1.70V/cell)	4mΩ@25°C/77°F	720A (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	197	156	136	117	89.5	67.9	56.3	33.6	24.5	19.5	16.5	14.4	11.6	9.74	5.20
1.80V/cell	240	183	152	128	94.8	72.2	59.1	35.1	25.5	20.4	17.1	15.0	12.0	10.0	5.29
1.75V/cell	278	201	166	136	100	75.5	61.4	35.9	26.1	20.8	17.5	15.3	12.2	10.2	5.40
1.70V/cell	308	216	173	141	105	78.0	63.3	36.5	26.5	21.2	17.8	15.5	12.4	10.4	5.51
1.67V/cell	325	228	180	147	109	80.2	64.8	37.3	26.9	21.6	18.1	15.7	12.5	10.5	5.61
1.60V/cell	348	242	189	154	114	83.1	66.3	37.9	27.4	21.9	18.4	15.9	12.7	10.7	5.72

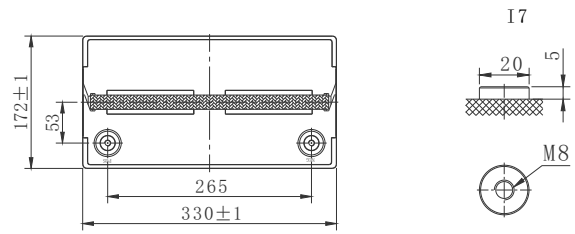
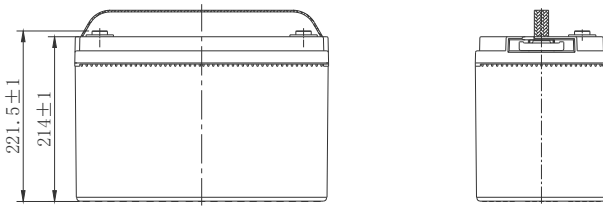
Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	366	295	260	228	176	135	112	67.5	49.6	39.6	33.6	29.4	23.8	20.0	10.7
1.80V/cell	445	345	292	247	186	143	117	70.2	51.5	41.3	34.8	30.5	24.4	20.5	10.9
1.75V/cell	515	378	316	261	196	149	121	71.8	52.5	41.9	35.5	31.1	24.9	20.9	11.1
1.70V/cell	571	406	328	271	205	154	125	72.8	53.2	42.6	36.0	31.5	25.2	21.2	11.2
1.67V/cell	600	427	341	280	211	158	128	74.1	53.8	43.3	36.5	31.8	25.4	21.4	11.4
1.60V/cell	640	449	357	293	220	162	130	75.1	54.6	43.7	36.9	32.1	25.6	21.6	11.6

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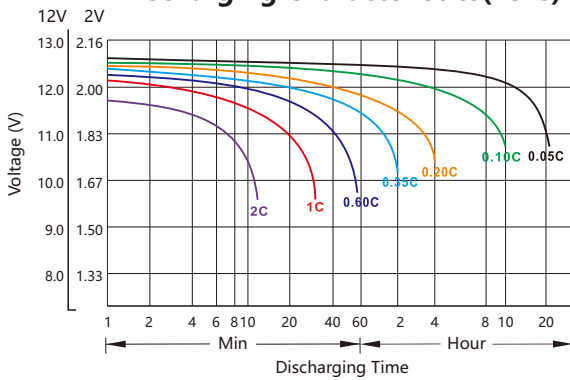


Battery Dimensions(mm)

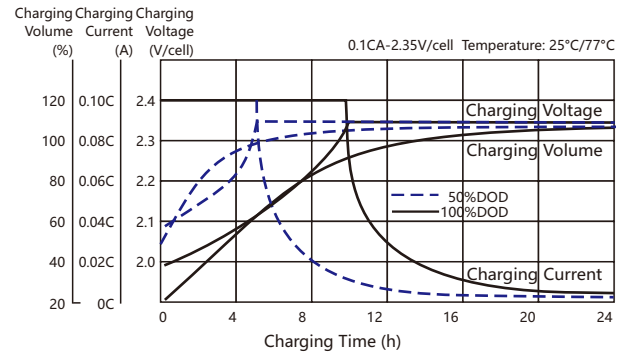


Electrical Characteristics

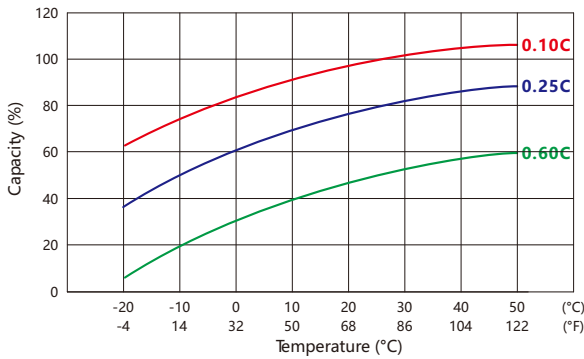
Discharging Characteristics(25°C)



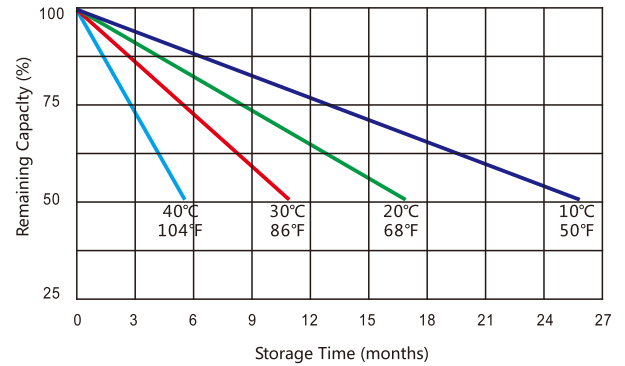
Charging Characteristics(25°C)



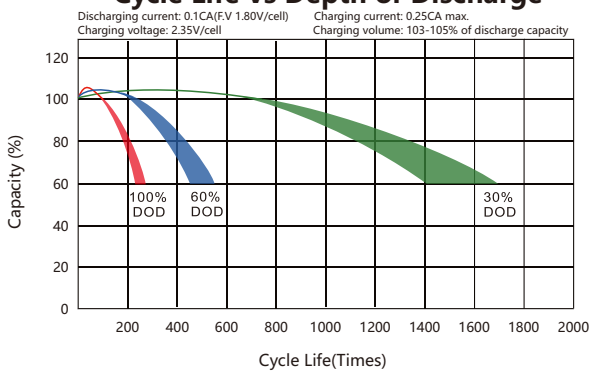
Capacity vs Temperature



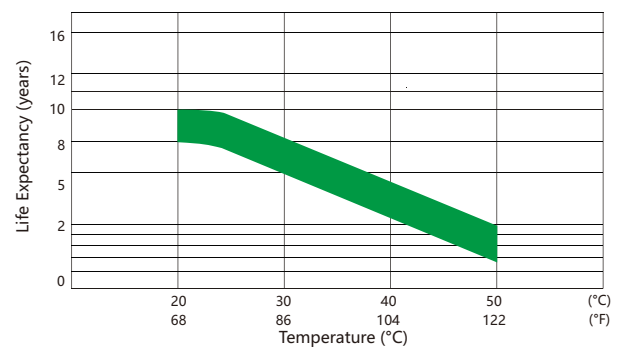
Self-discharge vs Time



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