

TN12-30 [12V 30Ah]



Product Features

General Purpose (AGM)		3~5 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
TN12-30	Length	Width	Height	Total Height	9.0/19.8	I1	ABS UL94-HB (Optional: FR ABS UL94-V0)
	195/7.68	130/5.12	157.5/6.20	162/6.38			

Product Specifications

Nominal Voltage	Rated Capacity 25°C/77°F	Internal Resistance	Max. Discharge Current	Operating Temp. Range
12V	30.0Ah 20hr Rate (1.80V/cell) 28.4Ah 10hr Rate (1.80V/cell) 25.0Ah 5hr Rate (1.75V/cell) 21.8Ah 3hr Rate (1.70V/cell)	12mΩ@25°C/77°F	450A (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	97.1	62.9	52.4	43.1	30.1	20.9	16.3	9.19	6.71	5.52	4.75	4.14	3.35	2.78	1.48
1.80V/cell	104.8	66.5	54.5	44.1	30.9	21.4	16.7	9.38	6.89	5.66	4.86	4.26	3.44	2.84	1.50
1.75V/cell	108.5	68.4	55.9	45.2	31.6	22.0	17.1	9.60	7.10	5.81	4.99	4.35	3.53	2.90	1.54
1.70V/cell	112.5	69.9	57.0	46.3	32.3	22.6	17.6	9.89	7.27	5.96	5.11	4.49	3.63	2.97	1.57
1.67V/cell	115.5	72.2	58.3	47.5	33.0	23.1	18.0	10.1	7.45	6.08	5.23	4.57	3.68	3.01	1.59
1.60V/cell	119.1	75.2	60.4	49.1	34.0	23.7	18.4	10.5	7.68	6.26	5.36	4.69	3.77	3.09	1.62

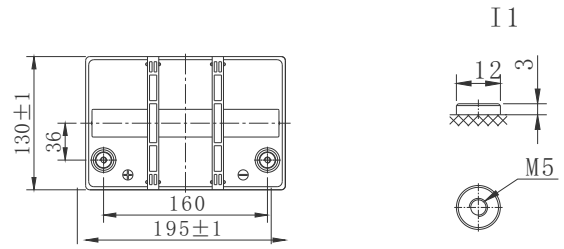
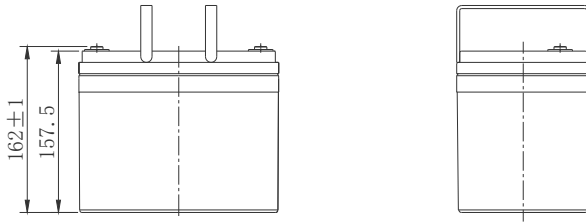
Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	180.7	119.2	100.6	83.6	59.2	41.4	32.4	18.5	13.6	11.2	9.68	8.46	6.87	5.70	3.05
1.80V/cell	194.7	125.6	104.2	85.3	60.6	42.3	33.1	18.8	13.9	11.5	9.89	8.68	7.04	5.82	3.08
1.75V/cell	201.2	128.7	106.4	87.1	61.9	43.3	33.8	19.2	14.3	11.7	10.1	8.85	7.20	5.94	3.15
1.70V/cell	208.4	131.2	108.2	88.9	63.0	44.6	34.8	19.7	14.6	12.0	10.3	9.08	7.37	6.04	3.19
1.67V/cell	213.2	134.9	110.3	91.0	64.2	45.4	35.4	20.1	14.9	12.2	10.5	9.23	7.47	6.12	3.24
1.60V/cell	219.0	140.0	113.9	93.5	65.8	46.3	36.2	20.9	15.3	12.5	10.7	9.44	7.62	6.24	3.29

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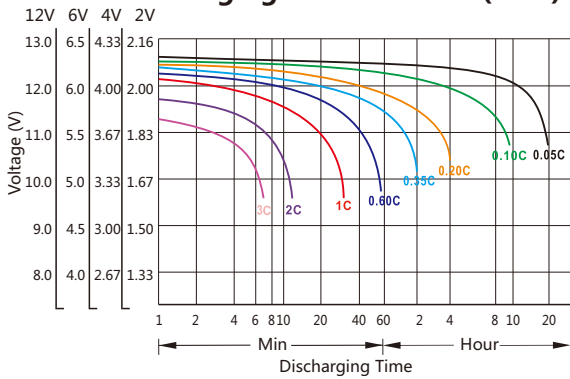


Battery Dimensions(mm)

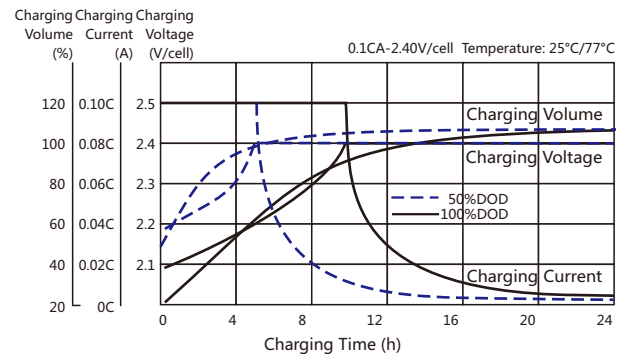


Electrical Characteristics

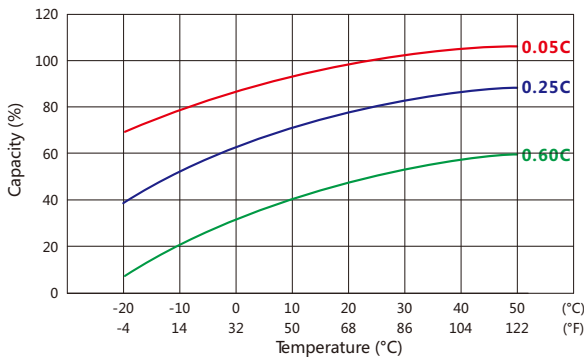
Discharging Characteristics(25°C)



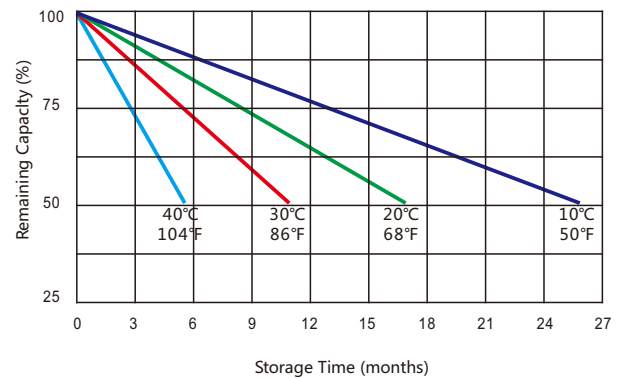
Charging Characteristics(25°C)



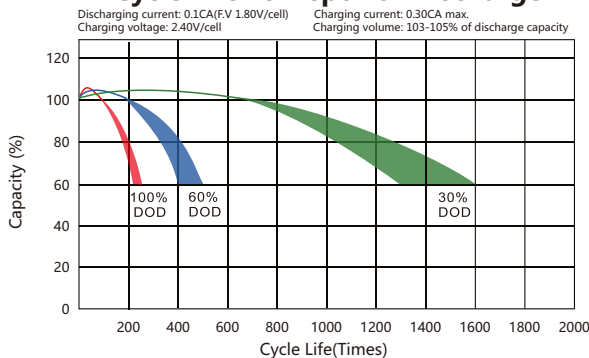
Capacity vs Temperature



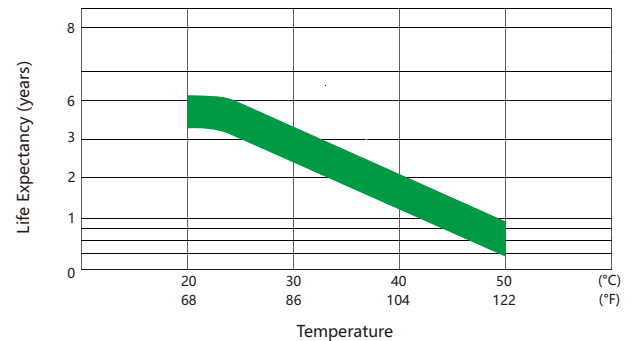
Self-discharge vs Time



Cycle Life vs Depth of Discharge



Floating Life vs Temperature



Usage and Maintenance

Charge Current	Equalization Charge	Float Charge
Limited current : $\leq 0.3C_{20}A$	Constant Voltage: 14.4~14.7V@25°C(77°F) Temp.Coefficient:-24mV/°C	Constant Voltage: 13.5~13.8V@25°C(77°F) Temp.Coefficient:-18mV/°C