

STANDBY SERIES SN12024 (12V 24AH)



Specifications

Nominal Voltage	12V	
Nominal Capacity(20hr)	24AH	
Dimension	Length	166.5±1mm(6.56inch)
	Width	175±1mm(6.89inch)
	Height	125±1mm(4.92inch)
	Total Height	125±1mm(4.92inch)
Approx Weight	Approx. 7kg(15.43lbs)	
Terminal Type	T3	
container Material	ABS(UL-94HB)	
Internal Resistance	Approx. 16mΩ	
	24AH/1.2A	(20hr, 1.80V/cell,25°C/77°F)
Rated Capacity	23.04AH/2.30A	(10hr, 1.80V/cell,25°C/77°F)
	20.88AH/4.08A	(5hr, 1.75V/cell,25°C/77°F)
	18.48AH/6.16A	(3hr, 1.75V/cell,25°C/77°F)
	14.88AH/14.88A	(1hr, 1.60V/cell,25°C/77°F)
Max. Discharge Current	360A(5S)	
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Charge Current Less Than 0.25CA	
	14.1V~14.7V@25°C(77°F)Temp. Coefficient -30mV/°C	
Floating Use	No limit on Initial Charging Current Voltage	
	13.5V~13.8V@25°C(77°F)Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C	103%
	25°C	100%
	0°C	86%
	-15°C	65%
Self-discharge	3 month	Remaining capacity: 91%
	6 month	Remaining capacity: 82%
	12month	Remaining capacity: 65%



Constant Power Discharge at 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	83.6	64.8	54.3	47.4	37	27.5	23.3	13.9	10.9	8.88	7.26	6.32	5.12	4.28	2.35
1.80V/cell	111	81.9	64.7	55.2	43	31.8	25.9	15	11.6	9.43	7.76	6.75	5.41	4.41	2.37
1.75V/cell	122.5	88.5	69.8	58.8	44.3	32.6	27	15.5	11.8	9.6	7.93	6.91	5.49	4.52	2.39
1.70V/cell	131.1	94.3	73.4	61.3	45.9	33.8	27.8	15.9	12.1	9.84	8.12	7.04	5.56	4.61	2.44
1.65V/cell	142.5	100.8	77.5	64.7	48	34.4	28.2	16	12.6	10.1	8.32	7.18	5.64	4.7	2.47
1.60V/cell	153.6	107	81.5	68.1	50.3	35.6	28.3	16.6	12.9	10.4	8.56	7.31	5.68	4.74	2.48

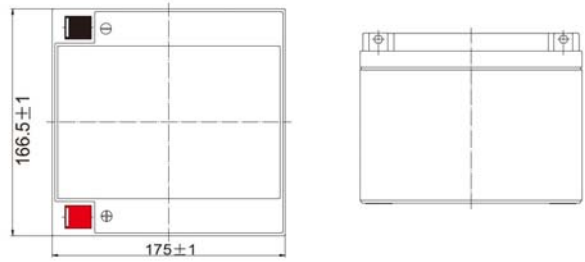
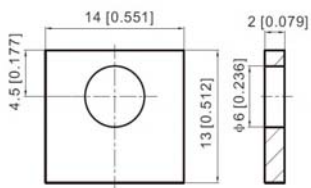
Constant Current Discharge at 25°C(77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	45.7	35.1	29.1	25.1	19.4	14.32	12.07	7.14	5.58	4.54	3.7	3.21	2.59	2.16	1.19
1.80V/cell	61.3	44.8	35.1	29.7	22.9	16.7	13.52	7.79	6.01	4.85	3.97	3.45	2.75	2.23	1.2
1.75V/cell	69.2	49.3	38.4	32	23.8	17.3	14.14	8.08	6.12	4.96	4.08	3.54	2.8	2.29	1.21
1.70V/cell	76.2	53.7	41	33.6	24.8	18	14.59	8.28	6.29	5.09	4.18	3.61	2.84	2.34	1.23
1.65V/cell	84	58	43.6	35.7	26.1	18.4	14.93	8.4	6.56	5.26	4.3	3.69	2.88	2.39	1.25
1.60V/cell	92.6	62.9	46.6	38	27.6	19.2	15.07	8.76	6.76	5.43	4.44	3.77	2.91	2.41	1.26

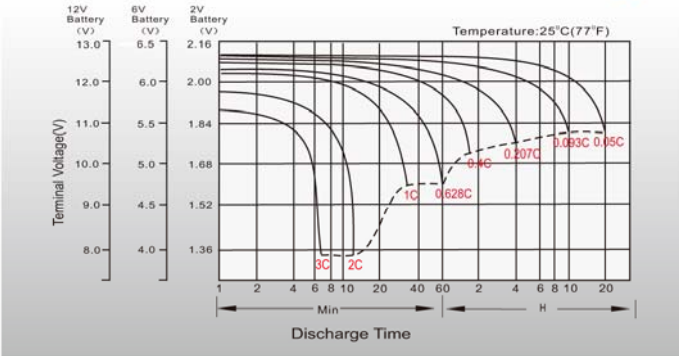
Dimension

T3 Terminal

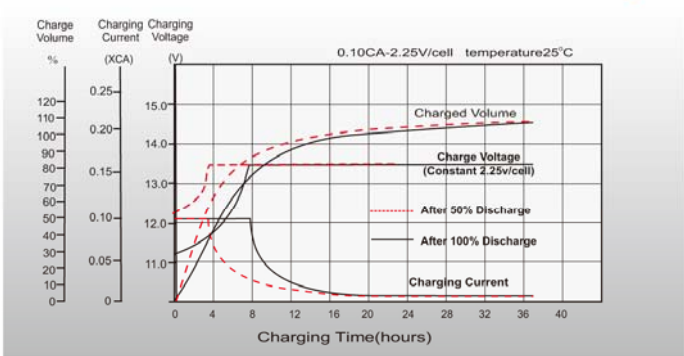
Unit: mm [inches]



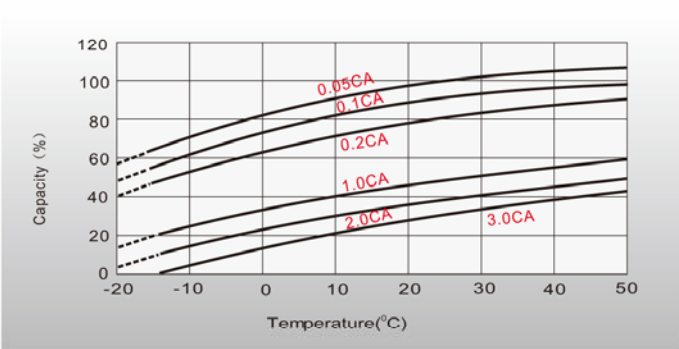
Discharge Characteristics



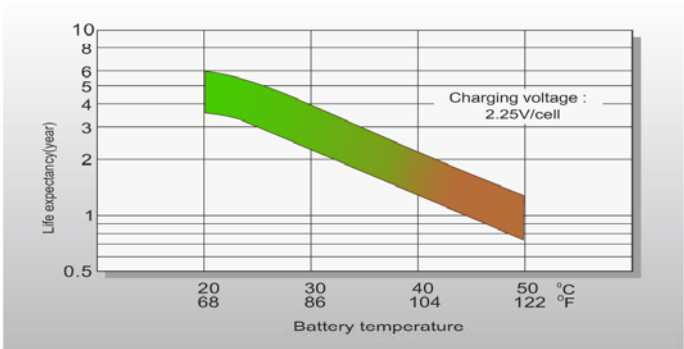
Float Charging Characteristics



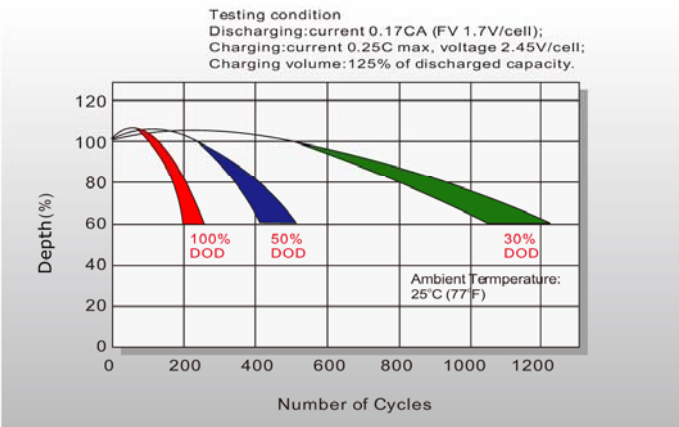
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics

