

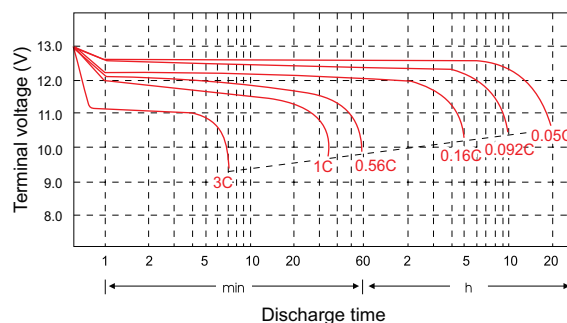
Specifications

Nominal Voltage	12V	
Rated Capacity (20 hour rate)	14Ah	
Dimensions	Total Height (with terminals)	3.97 inches (101mm)
	Height	3.47 inches (95mm)
	length	5.94 inches (151mm)
	width	3.86 inches (98mm)
Weight	Approx. 8.49 pound (3.85kg)	

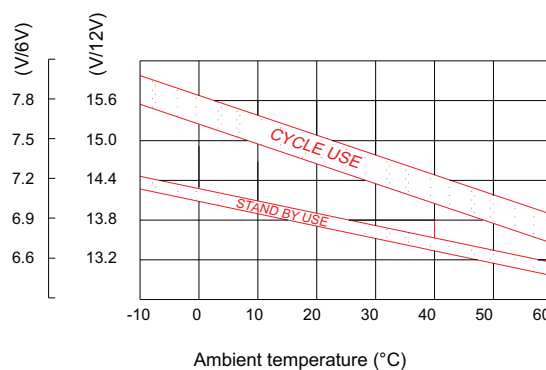
Characteristics

Capacity 77°F (25°C)	20 hour rate (0.70A)	14Ah
	10 hour rate (1.31A)	13.1Ah
	5 hour rate (2.40A)	12.0Ah
	1 hour rate (8.62A)	8.62Ah
	15 minute rate (25.1A)	6.27Ah
Internal Resistance	Full charged Battery 77°F (25°C)	15mΩ
	104°F (40°C)	102%
	77°F (25°C)	100%
Capacity Affected by Temperature (20 hour rate)	32°F (0°C)	85%
	5°F (-15°C)	65%
	Capacity after 3 month storage	91%
Self-Discharge 77°F (25°C)	Capacity after 6 month storage	81%
	Capacity after 12 month storage	60%
	Max. Discharge Current 77°F (25°C)	210A (5S)
Terminal	F1 / F2	
Charge (constant voltage)	Cycle	Initial charging current less than 4.2A
		Voltage 14.4~14.7 V / 77°F (25°C)
	Float	Voltage 13.5~13.8V / 77°F (25°C)

Discharge Curves 77°F (25°C)



Relationship between charge voltage and temperature



Constant Current Discharge (AMPERES @ 25°C)

F.V/Time	5min	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60	54.2	34.3	27.1	15.7	9.28	5.06	3.62	2.46	1.58	1.34	0.73
1.65	52.6	33.2	26.4	15.3	9.04	5.04	3.61	2.44	1.58	1.33	0.72
1.70	51.5	32.5	26.0	15.0	8.91	4.99	3.57	2.42	1.57	1.32	0.71
1.75	49.8	31.5	25.1	14.6	8.62	4.94	3.53	2.40	1.56	1.31	0.70
1.80	48.4	30.6	24.7	14.2	8.46	4.89	3.49	2.37	1.55	1.30	0.70

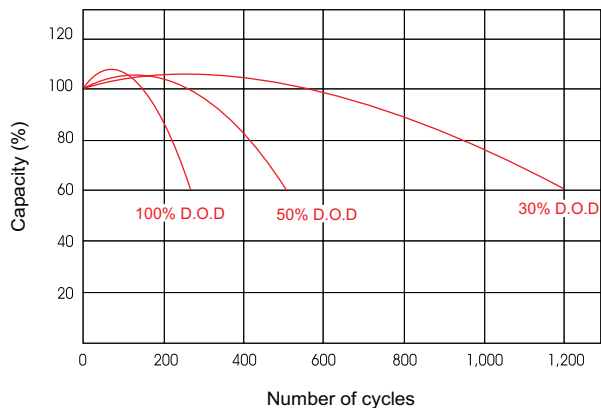
Constant Power Discharge (WATTS PER CELL @ 25°C)

F.V/Time	5min	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60	98.2	64.4	51.1	29.9	17.8	9.89	7.17	4.89	3.16	2.66	1.45
1.65	97.9	62.5	50.3	29.2	17.5	9.84	7.14	4.87	3.16	2.65	1.45
1.70	95.9	61.2	49.4	28.7	17.2	9.74	7.07	4.82	3.14	2.64	1.44
1.75	92.8	59.3	47.9	27.8	16.6	9.65	7.00	4.77	3.12	2.63	1.43
1.80	90.1	57.4	47.9	27.3	16.3	9.55	6.91	4.72	3.11	2.61	1.42

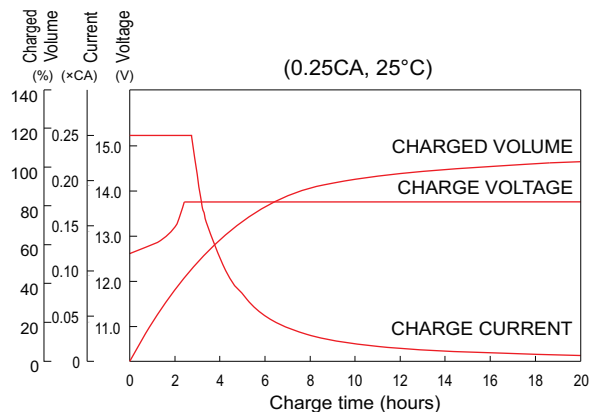
The operating environment temperature above 40°C should be avoided. After long term storage, the battery actual capacity would be less than the rated capacity. Full capacity will be obtained through several charge/discharge cycles.

To get the longest life, battery should be fully charged before storage.

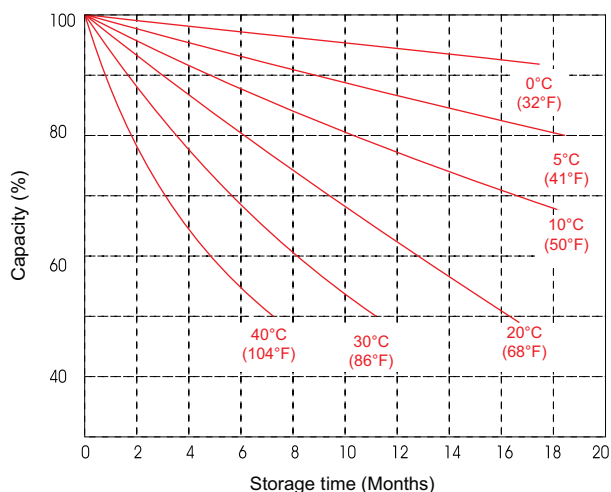
Cycle service life in relation to depth of discharge



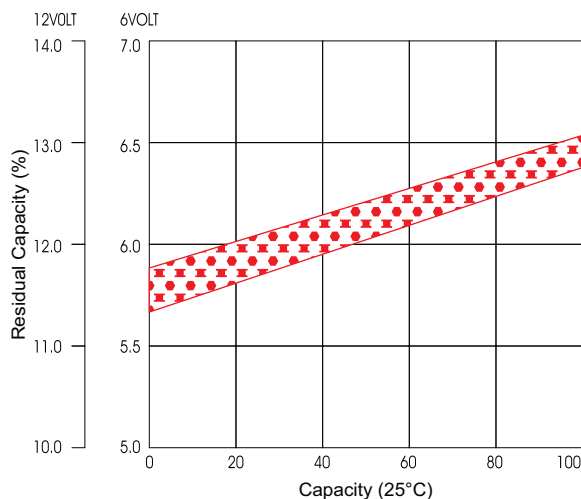
Constant voltage charge characteristic



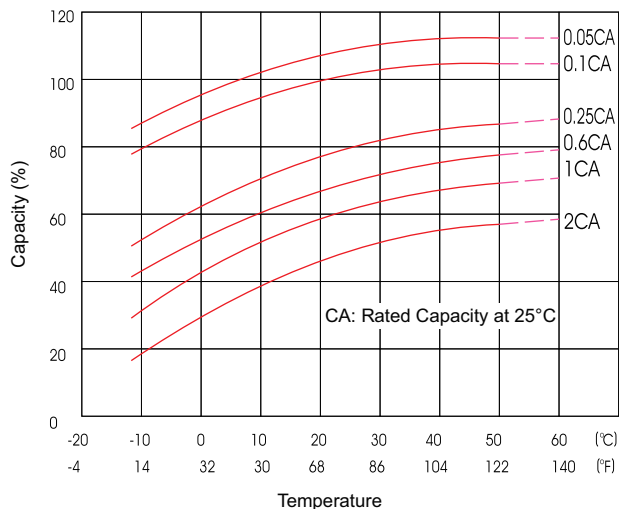
Self-Discharge Characteristics



Relationship of OCV and Residual Capacity % (25°C)



Temperature effects on capacity



Temperature effects float life

