

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, IMP battery should be fully charged before storage.

Specifications

		L x W x H
Nominal Voltage		12V
Rated Capacity (20 hour rate)		7.0Ah
Dimensions	Length	5.94 inches(151mm)
	Width	2.55 inches(65mm)
	Height	3.70 inches(99mm)
	Total Height with terminals	3.93 inches(100mm)
	Weight	Approx. (2 .5kg)

Characteristics

Capacity 77°F(25°C)	20 hour rate (0.35A)	7.0 Ah
	10 hour rate (6.5A)	6.5 Ah
	5 hour rate (1.12A)	5.6 Ah
	1 hour rate (4.2A)	4.2 Ah
Internal Resistance	Full charged Battery at 25°C(77°F)	26 mΩ
	40°C (104°F)	102%
	25°C (77°F)	100%
Capacity affected by Temperature (20hour rate)	0°C (32°F)	85%
	-15°C (5°F)	65%
Self-Discharge 77°F(25°C)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	81%
	Capacity after 12 month storage	60%
Terminal	T1 / T2	
Charge (Constant Voltage)	Cycle	Initial Charging Current less than 2.1A Voltage 14.4~14.7 V / 77°F(25°C)
	Float	Voltage 13.5~13.8V / 77°F(25°C)
Design Life	5 years	

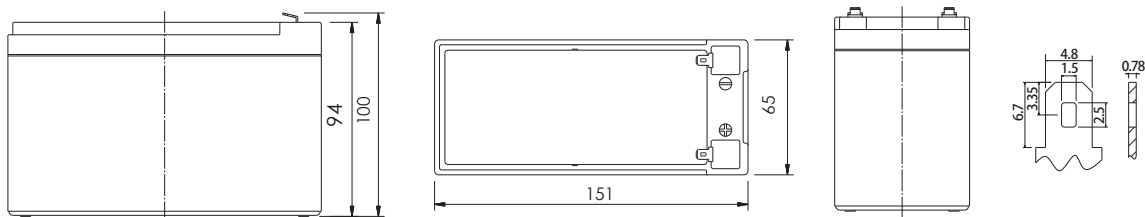
Test Report

Test Standards	IEC 60950-1, IEC 60896-2, EN 50342-1 : 2006+A1 : 2011
Measurement Procedure Used :	EN 55022: 2010+AC:2011 EN 61000-6-3:2007+A1:2011+AC:2012 EN 55024:2010 EN 61000-6-1:2007 /IEC 61000-4-2:2008, IEC 61000-4-3:2006+A1:2007 +A2:2010, IEC 61000-4-8:2009)

T6-12-7



Dimension : L x W x H



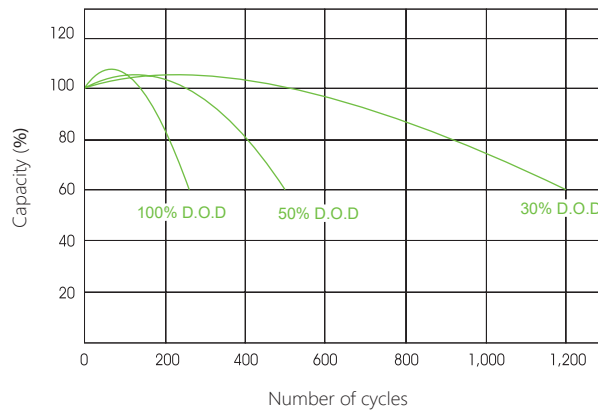
Constant Current Discharge (AMPERES @25°C)

EV/TIME	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60v	3.74	2.46	1.98	1.33	0.70	0.41	0.30	0.23	0.19	0.14	0.12	0.07
1.70v	7.85	4.82	4.05	2.76	1.43	0.84	0.63	0.49	0.41	0.29	0.26	0.14
1.75v	7.59	4.31	3.55	2.58	1.38	0.82	0.62	0.49	0.40	0.29	0.26	0.14
1.80v	7.32	4.06	3.30	2.38	1.34	0.81	0.60	0.48	0.39	0.28	0.24	0.14
1.85v	7.07	3.80	3.04	2.13	1.29	0.78	0.58	0.47	0.39	0.27	0.24	0.13

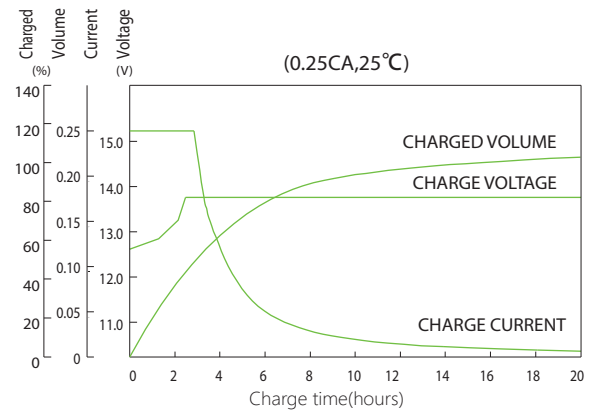
Constant Power Discharge (WATTS PER CELL@25°C)

Cut off voltage V/cell	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60v	38.62	26.30	21.28	14.30	7.56	4.49	3.34	2.63	2.19	1.56	1.42	0.77
1.70v	38.66	24.80	20.91	14.28	7.44	4.50	3.38	2.64	2.20	1.56	1.42	0.75
1.75v	38.24	22.60	18.66	13.70	7.38	4.41	3.32	2.62	2.19	1.55	1.39	0.76
1.80v	37.86	21.60	17.50	12.71	7.17	4.35	3.27	2.61	2.15	1.52	1.38	0.75
1.85v	36.98	20.32	16.33	11.46	7.00	4.28	3.19	2.56	2.12	1.49	1.34	0.72

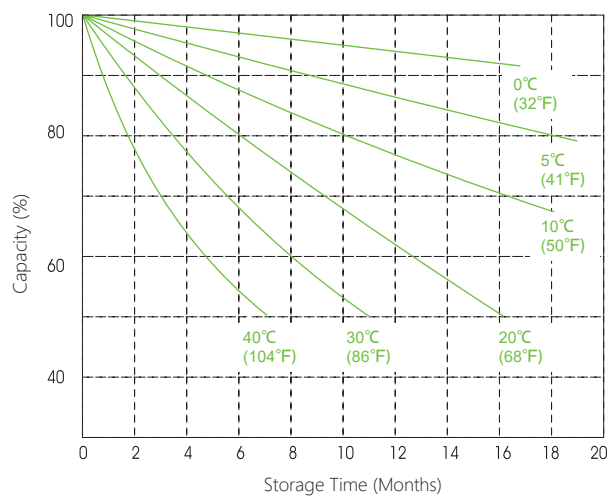
■ Cycle service life in relation to depth of discharge



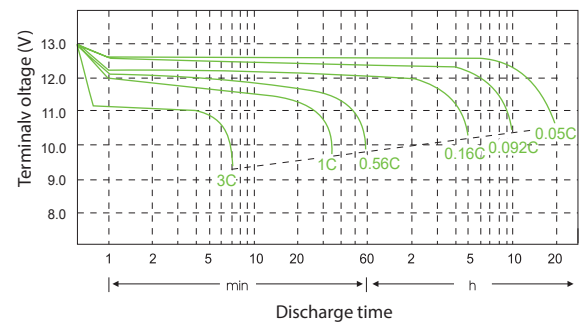
■ Constant voltage charge characteristic



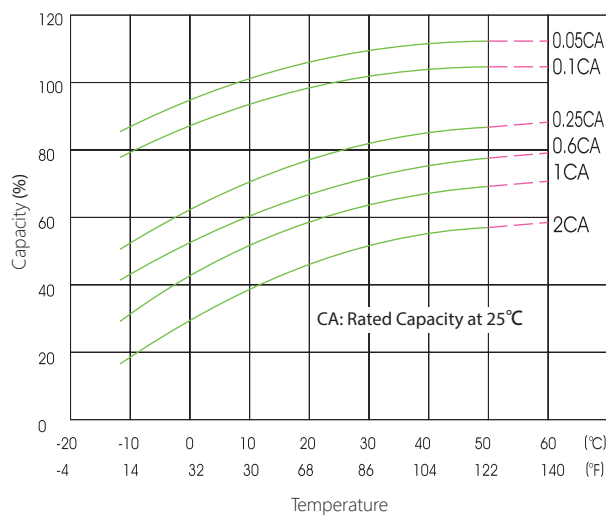
■ Self-Discharge Characteristics



■ Discharge Curves 77 F(25 C)



■ Temperature effects on capacity



■ Temperature effects float life

