

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

Nominal Voltage		12V
Rated Capacity (20 hour rate)		50Ah
Dimensions	Total Height (with terminals)	8.23 inches(209mm)
	Height	8.11 inches(206mm)
	length	9.06 inches(230mm)
	width	5.44 inches(138mm)
Weight		Approx. (14.8kg)

Characteristics

Capacity 77°F (25°C)	20 hour rate (3.25A)	52 Ah
	10 hour rate (6.10A)	50 Ah
	5 hour rate (10.4A)	42.7 Ah
	1 hour rate (39.0A)	30.4 Ah
Internal Resistance	Full charged Battery at 25°C (77°F)	8 mΩ
Capacity affected by Temperature (20hour rate)	40°C (104°F)	102%
	25°C (77°F)	100%
	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	T9/7/6	
Charge (Constant Voltage)	Cycle	Initial Charging Current less than 12.5A Voltage 14.4~14.7 V / 77°F (25°C)
	Float	Voltage 13.5~13.8V / 77°F (25°C)
Design Life	5 years	
Colour	Black / White	

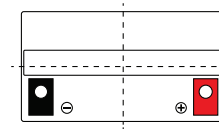
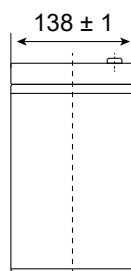
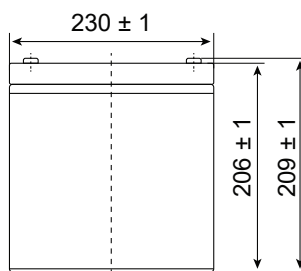
Test Report

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)

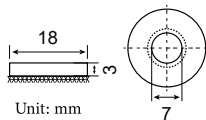
T6-12-50



Dimension : L x W x H



Terminal: M8X18



Unit: mm

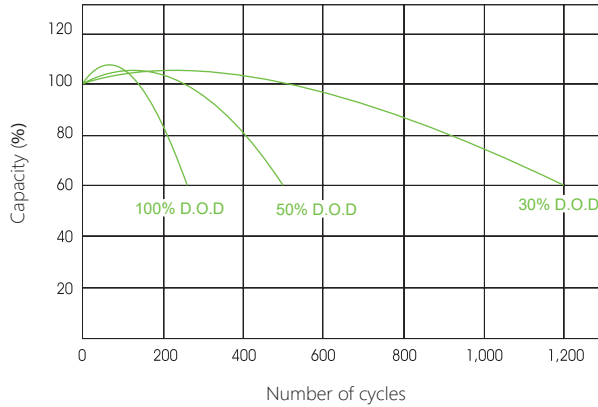
Constant Current Discharge (AMPERES @25°C)

EV/TIME	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60v	303.42	206.62	167.20	112.38	59.40	35.26	26.22	20.66	17.17	12.28	11.12	6.04
1.70v	303.72	194.88	164.33	112.20	58.48	35.32	26.52	20.78	17.29	12.22	11.12	5.92
1.75v	300.42	177.59	146.61	107.62	57.99	34.65	26.09	20.59	17.17	12.16	10.94	5.96
1.80v	297.49	169.71	137.50	99.86	56.34	34.16	25.73	20.47	16.93	11.98	10.88	5.90
1.85v	290.58	159.68	128.27	90.08	55.00	33.61	25.06	20.11	16.62	11.73	10.51	5.67

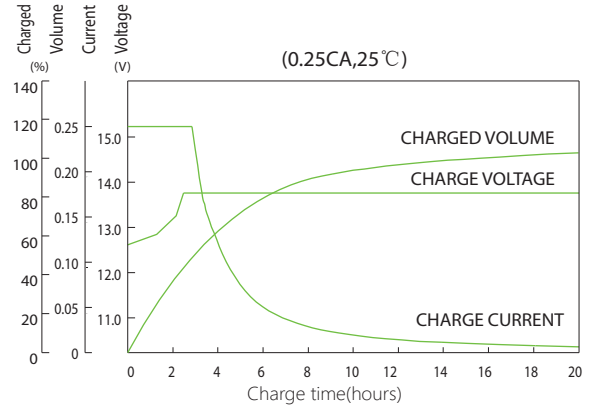
Constant Power Discharge (WATTS PER CELL@25°C)

Cut off voltage V/cell	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60v	294.0	193.6	155.8	104.5	55.0	32.1	23.6	18.3	15.1	10.7	09.6	05.2
1.70v	284.5	174.9	147.0	100.0	51.8	30.6	23.0	17.9	14.9	10.5	09.5	05.0
1.75v	275.4	156.2	128.7	93.6	50.1	29.9	22.4	17.6	14.7	10.4	09.3	05.0
1.80v	265.5	147.4	119.5	86.2	48.4	29.2	21.8	17.3	14.3	10.1	08.8	05.0
1.85v	256.3	137.9	110.4	77.1	46.8	28.5	21.1	16.9	14.0	09.8	08.7	04.7

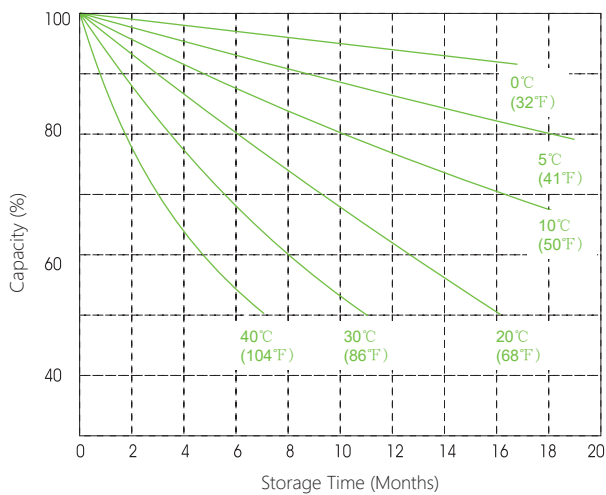
Cycle service life in relation to depth of discharge



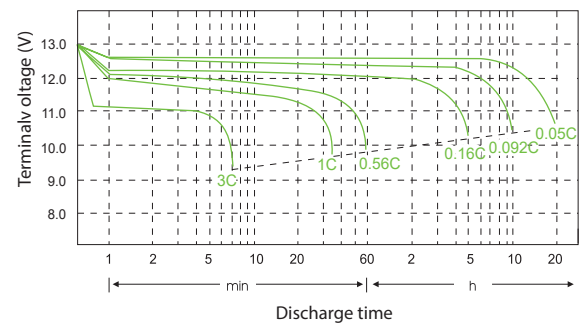
Constant voltage charge characteristic



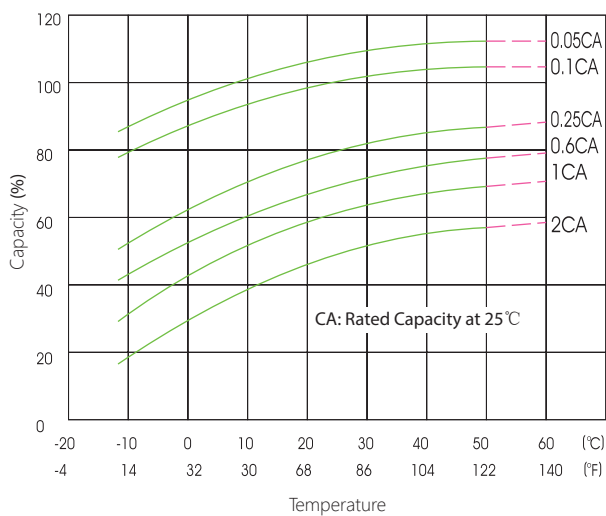
Self-Discharge Characteristics



Discharge Curves 77°F (25°C)



Temperature effects on capacity



Temperature effects float life

