



T6 Series For General Use

SLA
Sealed Lead Acid Battery

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)		100Ah
Dimensions	Length	12.90 inches(330mm)
	Width	6.73 inches(171mm)
	Height	8.42 inches(214mm)
	Total Height with terminals	8.66 inches(220mm)
Weight		Approx. (30.0kg)

Characteristics

Capacity 77℔ (25℔)	20 hour rate (3.25A)		100 Ah
	10 hour rate (6.10A)		92 Ah
	5 hour rate (10.4A)		80 Ah
	1 hour rate (39.0A)		60 Ah
Internal Resistance	Full charged Battery at 25°C(77°F)		5 mΩ
	40°C (104°F)		102%
	25°C (77°F)		100%
	0°C (32°F)		85%
Capacity affected by Temperature (20hour rate)	-15°C (5°F)		65%
	Capacity after 3 month storage		91%
	Capacity after 6 month storage		81%
	Capacity after 12 month storage		60%
Self-Discharge 77℔ (25℔)			
Terminal		M2	
Charge (Constant Voltage)	Cycle	Initial Charging Current less than 30A Voltage 14.4~14.7 V / 77℔ (25℔)	
	Float	Voltage 13.5~13.8V / 77℔ (25℔)	
Design Life		10 years	

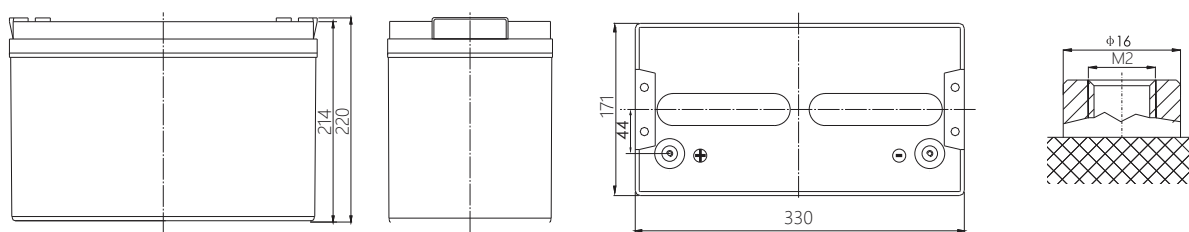
Test Report

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)

T6-12-100



Dimension : L x W x H



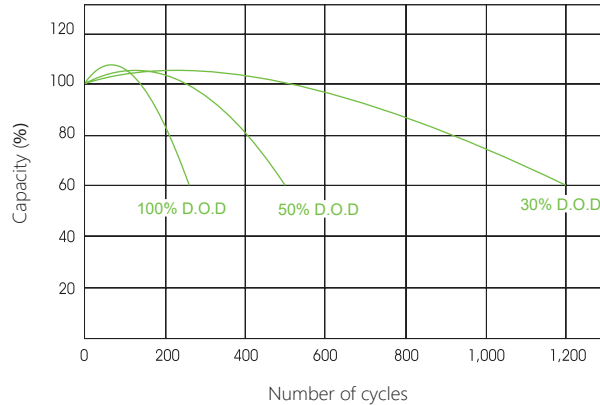
Constant Current Discharge (AMPERES @25°C)

EV / TIME	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60v	53.46	35.19	28.33	19.00	10.00	5.83	4.28	3.33	2.75	1.95	1.75	0.94
1.70v	51.73	31.79	26.73	18.19	9.41	5.57	4.17	3.26	2.71	1.90	1.72	0.92
1.75v	50.06	28.40	23.40	17.02	9.11	5.44	4.07	3.21	2.67	1.89	1.69	0.92
1.80v	48.27	26.79	21.73	15.68	8.81	5.31	3.97	3.15	2.60	1.84	1.60	0.90
1.85v	46.60	25.06	20.06	14.01	8.51	5.17	3.84	3.07	2.54	1.79	1.58	0.85

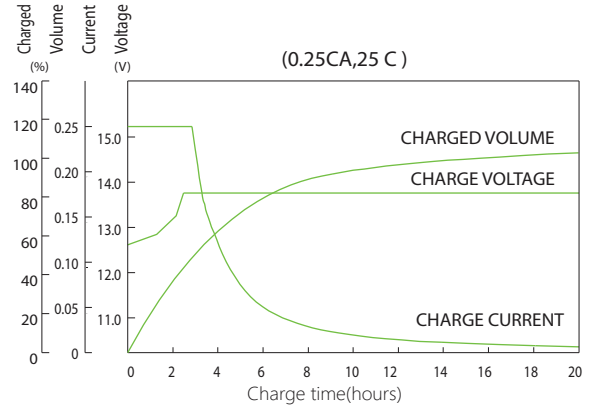
Constant Power Discharge (WATTS PER CELL@25°C)

Cut off voltage V/cell	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60v	551.67	375.67	304.00	204.33	108.00	64.11	47.67	37.56	31.22	22.33	20.22	10.99
1.70v	552.22	354.33	298.78	204.00	106.33	64.22	48.22	37.78	31.44	22.22	20.22	10.76
1.75v	546.22	322.89	266.56	195.67	105.44	63.00	47.44	37.44	31.22	22.11	19.89	10.83
1.80v	540.89	308.56	250.00	181.56	102.44	62.11	46.78	37.22	30.78	21.78	19.78	10.72
1.85v	528.33	290.33	233.22	163.78	100.00	61.11	45.56	36.56	30.22	21.33	19.11	10.30

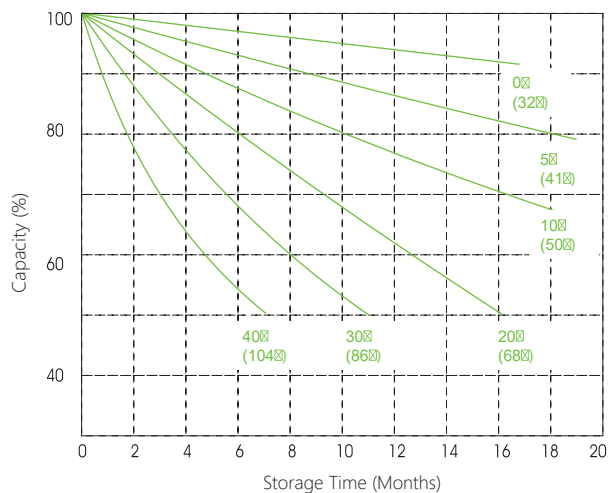
Cycle service life in relation to depth of discharge



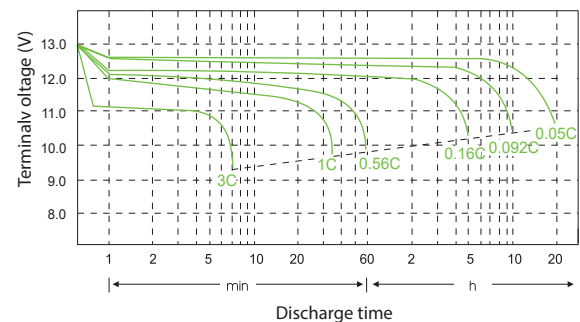
Constant voltage charge characteristic



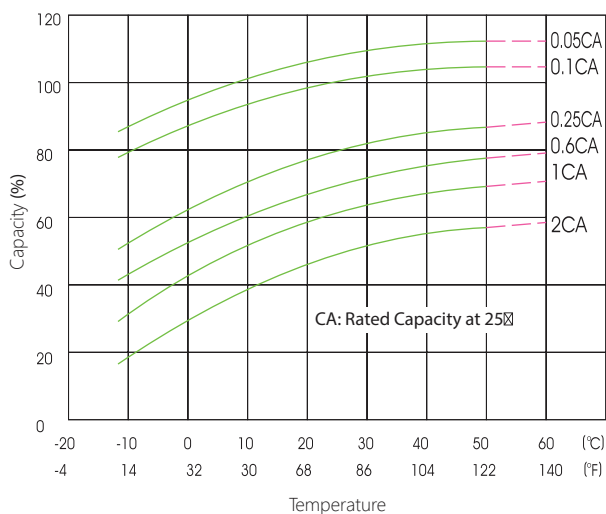
Self-Discharge Characteristics



Discharge Curves 77 F (25°C)



Temperature effects on capacity



Temperature effects float life

