T6 Series
For General Use

SLA
Sealed Lead Acid Battery

The operating environment temperature above 40℃ 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 xH
Nominal Voltage		12V
Rated Capacity (20 hour rate)		40Ah
Dimensions	Length	7.75 inches(197mm)
	Width	6.49 inches(165mm)
	Height	6.73 inches(171mm)
	Total Height with terminals)	6.69 inches(170mm)
	Weight	Approx. (13.7kg)

■ Characteristics

Capacity 77℉(25℃)		20 hour rate (0.75A)	40 Ah
		10 hour rate (1.4A)	36.0 Ah
		5 hour rate (2.4A)	32.0 Ah
		1 hour rate (10.4A)	24.0 Ah
Internal Resistance		Full charged Battery at 25℃(77℉)	7 MΩ
Capacity affected by Temperature (20hour rate)		40℃ (104℉)	103%
		25℃ (77℉)	100%
		0℃ (32℉)	86%
		-15℃ (5℉)	65%
Self-Discharge 77℉(25℃)		Capacity after 3 month storage	91%
		Capacity after 6 month storage	82%
		Capacity after 12 month storage	65%
Terminal		M1	
Charge (Constant Voltage)	Cycle	Initial Charging Current less than 12A	
		Voltage 13.8~15.0 V / 77℉(25℃)	
	Float	Voltage 13.5~13.8V / 77℉(25℃)	
Design Life		10 years	

■ Test Report

Test Standards	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) IEC 60896

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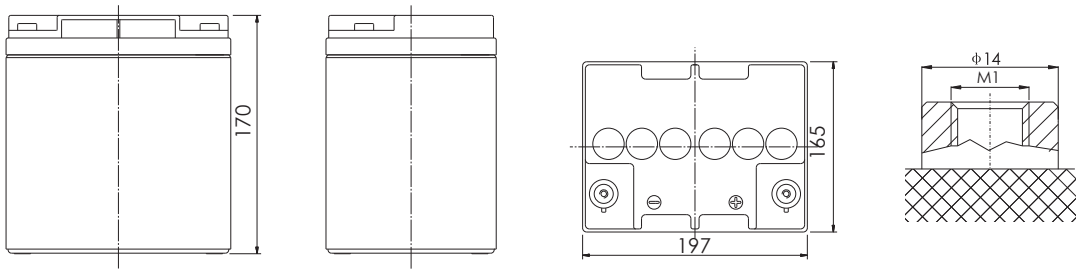
Dimension : L x W x H



■ Constant Current Discharge (AMPERES @25°C)

F.V /TIME	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60v	21.38	14.08	11.33	7.60	4.00	2.33	1.71	1.33	1.10	0.78	0.70	0.38
1.70v	20.69	12.72	10.69	7.27	3.76	2.23	1.67	1.30	1.08	0.76	0.69	0.37
1.75v	20.03	11.36	9.36	6.81	3.64	2.17	1.63	1.28	1.07	0.75	0.67	0.37
1.80v	19.31	10.72	8.69	6.27	3.52	2.12	1.59	1.26	1.04	0.73	0.64	0.36
1.85v	18.64	10.03	8.03	5.61	3.40	2.07	1.54	1.23	1.02	0.71	0.63	0.34

■ 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	220.67	150.27	121.60	81.73	43.20	25.64	19.07	15.02	12.49	8.93	8.09	4.40
1.70v	220.89	141.73	119.51	81.60	42.53	25.69	19.29	15.11	12.58	8.89	8.09	4.30
1.75v	218.49	129.16	106.62	78.27	42.18	25.20	18.98	14.98	12.49	8.84	7.96	4.33
1.80v	216.36	123.42	100.00	72.62	40.98	24.84	18.71	14.89	12.31	8.71	7.91	4.29
1.85v	211.33	116.13	93.29	65.51	40.00	24.44	18.22	14.62	12.09	8.53	7.64	4.12

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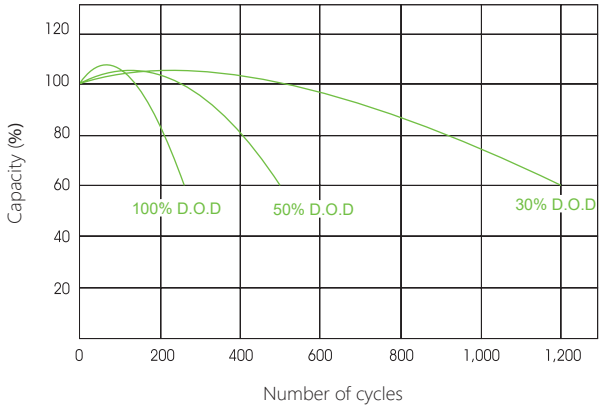
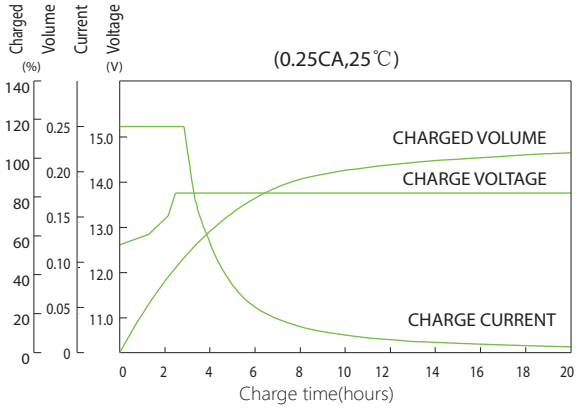
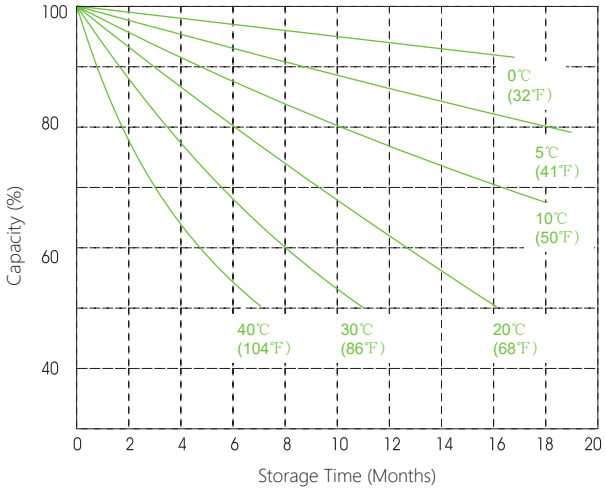
■ Cycle service life in relation to depth of discharge



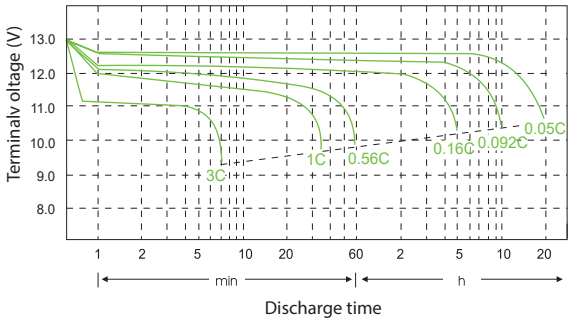
■ Constant voltage charge characteristic



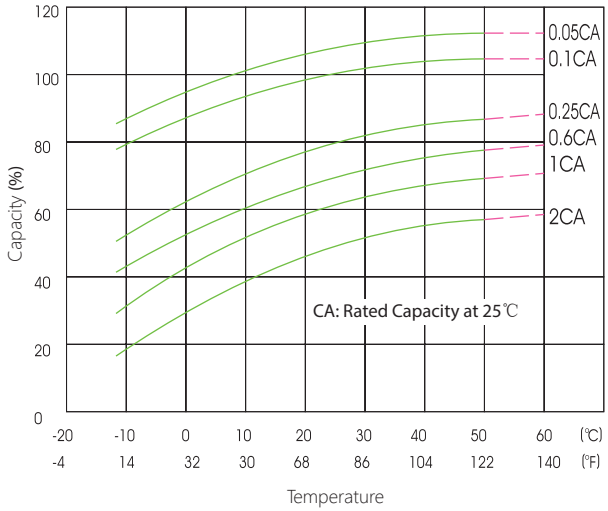
■ Self-Discharge Characteristics



■ Discharge Curves 77 F(25 C)



■ Temperature effects on capacity



■ Temperature effects float life