

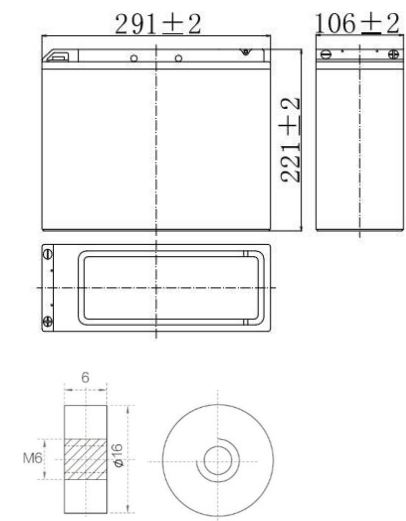
FRONT TERMINAL BATTERY FT12-50(12V50AH/10HR)

Specifications

Nominal Voltage	12V	
Nominal Capacity(10hr)	50AH	
Dimension	Length	291±2mm(11.46inch)
	Width	106±2mm(4.17inch)
	Height	223±2mm(8.78inch)
	Total Height	230±2mm(9.06inch)
Approx Weight	Approx. 17kg(±4%)	
Terminal Type	M6	
container Material	ABS(UL-94HB)	
Internal Resistance	Approx.5mΩ	
Rated Capacity	52.0Ah	(20hr, 1.80V/cell,25°C/77°F)
	50.0Ah	(10hr, 1.80V/cell,25°C/77°F)
	44.0Ah	(5hr, 1.75V/cell,25°C/77°F)
	40.0Ah	(3hr, 1.75V/cell,25°C/77°F)
	30.0Ah	(1hr, 1.60V/cell,25°C/77°F)
Max. Discharge Current	500A(5S)	
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Charge Current Less Than 0.25CA	
	14.1V~14.7V@25°C(77°F)Temp. Coefficient -30mV/°C	
Floating Use	No limit on Initial Charging Current Voltage	
	13.5V~13.8V@25°C(77°F)Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C	103%
	25°C	100%
	0°C	86%
	-15°C	65%
Self-discharge	3 month	Remaining capacity: 91%
	6 month	Remaining capacity:82%
	12month	Remaining capacity:65%



Dimensions



Terminal M6

Constant Power Discharge at 25°C(77°F)

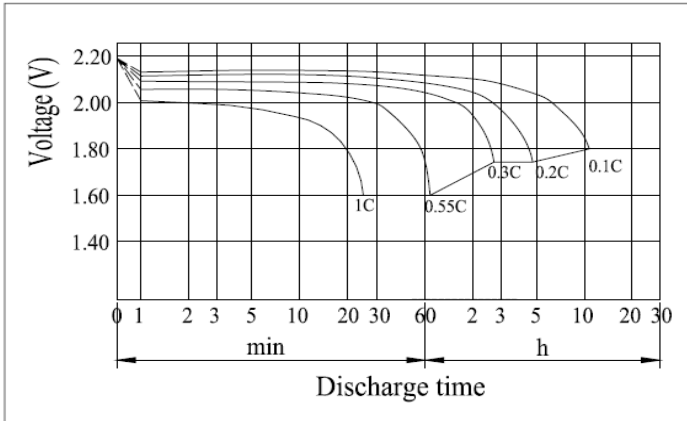
F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	10h	20h
1.80V/cell	351	222	166	82	52,6	33,1	27,0	21,2	17,6	14,8	9,6	4,90
1.75V/cell	358	226	171	88	55,3	34,9	27,2	21,7	17,8	15,1	9,7	4,99
1.70V/cell	376	231	177	94	58,0	36,7	27,5	22,0	18,0	15,5	9,8	5,08
1.67V/cell	386	243	183	101	60,8	38,5	27,7	22,3	18,3	15,9	9,9	5,12
1.60V/cell	389	259	189	107	63,5	40,4	27,9	22,7	18,6	16,2	10,0	5,17

Constant Current Discharge at 25°C(77°F)

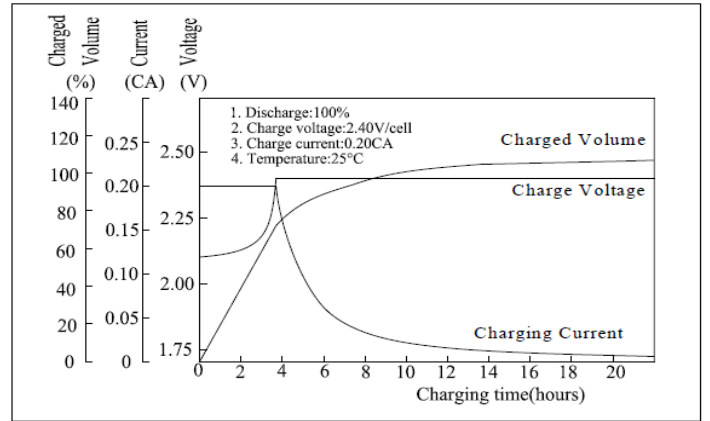
F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	10h	20h
1.80V/cell	180	114	85	42	27,0	17,0	13,9	10,9	9,0	7,6	4,93	2,51
1.75V/cell	183	116	88	45	28,4	17,9	14,0	11,1	9,1	7,8	4,98	2,56
1.70V/cell	193	118	91	48	29,8	18,8	14,1	11,3	9,2	8,0	5,02	2,60
1.67V/cell	198	124	94	52	31,2	19,8	14,2	11,5	9,4	8,1	5,07	2,63
1.60V/cell	199	133	97	55	32,6	20,7	14,3	11,6	9,6	8,3	5,12	2,65

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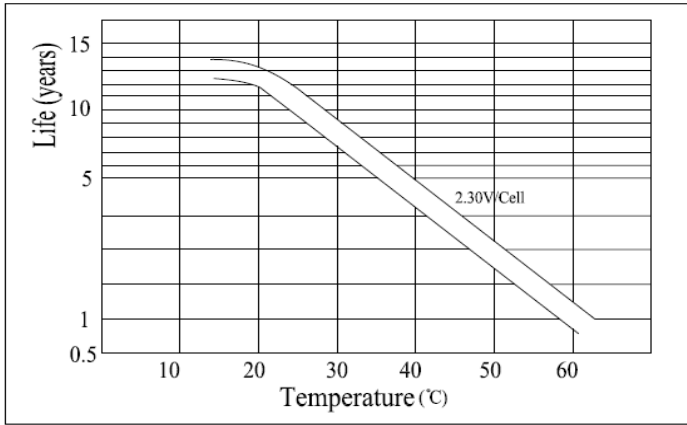
Discharge Characteristics



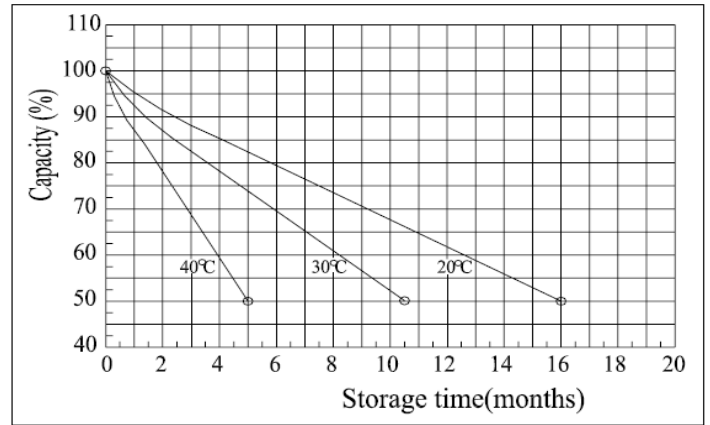
Float Charging Characteristics



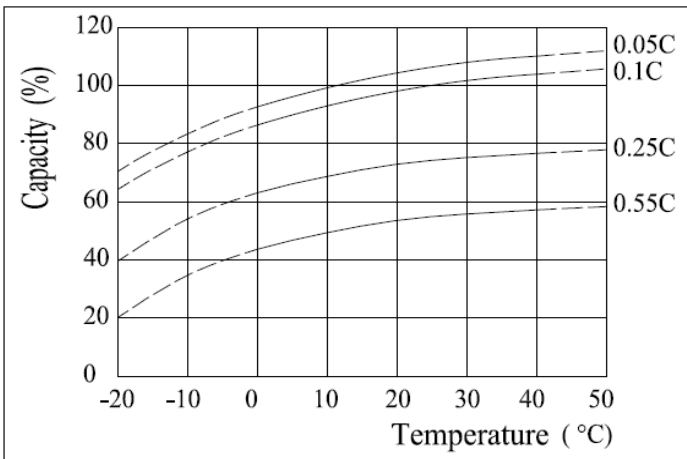
Floating Life on Temperature



Self Discharge Characteristics (25°C(77°F))



Temperature Effects in Relation to Battery Capacity



Cycle Life Relation to Depth of Discharge

