

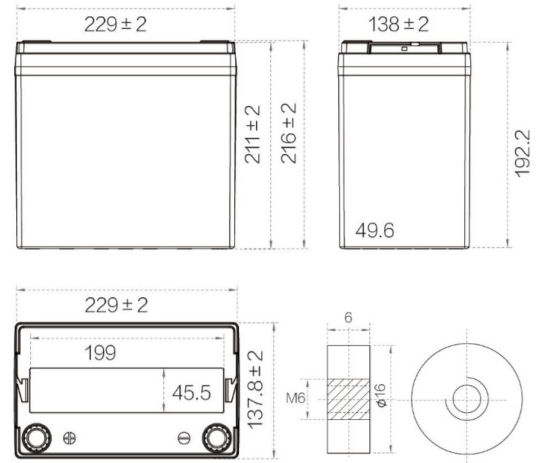
STANDBY SERIES SP12-50(12V50AH/10HR)

Specifications

Nominal Voltage	12V	
Nominal Capacity(10hr)	50Ah	
Dimension	Length	230±2mm(9.06inch)
	Width	137±2mm(5.39inch)
	Height	210±2mm(8.27inch)
	Total Height	215±2mm(8.46inch)
Approx Weight	Approx. 16kg(+4%)	
Terminal Type	M6	
container Material	ABS(UL-94HB)	
Internal Resistance	Approx. 6 mΩ	
Rated Capacity	53.0Ah	(20hr, 1.75 V/cell,25°C/77°F)
	50.0Ah	(10hr, 1.75 V/cell,25°C/77°F)
	48.0Ah	(5hr, 1.70V/cell,25°C/77°F)
	45.0Ah	(3hr, 1.70 V/cell,25°C/77°F)
	32.0Ah	(1hr, 1.70V/cell,25°C/77°F)
Max. Discharge Current	550 A(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)

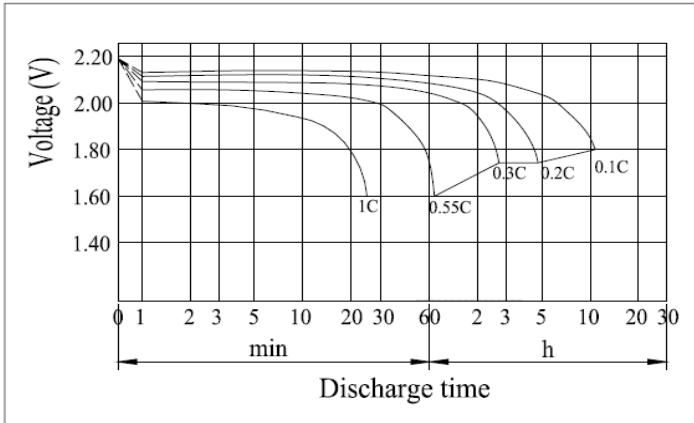
F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	10h	20h
1.80V/cell	183	152	126	91,0	61,8	34,4	25,1	20,2	16,2	14,3	8,86	4,96
1.75V/cell	207	171	135	94,2	63,0	36,1	25,6	20,5	16,6	14,4	8,95	4,98
1.70V/cell	231	184	145	96,3	64,3	37,3	26,0	20,7	16,7	14,5	9,01	5,00
1.65V/cell	246	189	148	97,5	65,7	38,4	26,3	20,9	16,9	14,6	9,04	5,01
1.60V/cell	250	191	150	98,6	66,6	38,5	26,7	21,0	17,4	14,8	9,10	5,01

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

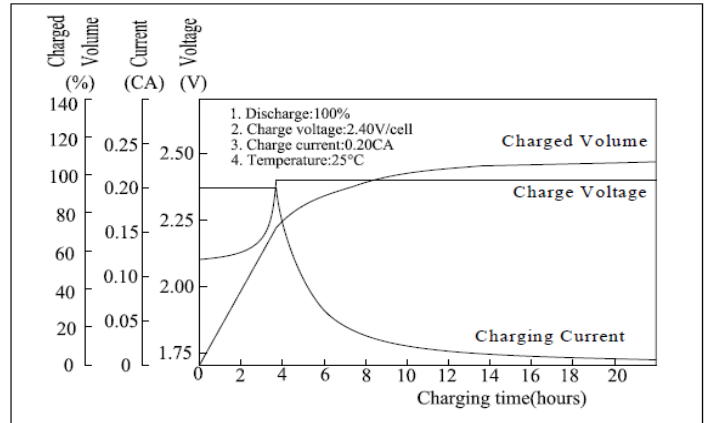
F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	10h	20h
1.80V/cell	129	114	83,2	52,3	27,8	16,2	13,1	10,3	8,38	7,16	4,98	2,64
1.75V/cell	131	115	84,1	52,7	29,2	16,6	13,2	10,5	8,46	7,19	5,00	2,65
1.70V/cell	140	117	85,7	53,6	30,1	17,1	13,4	10,7	8,53	7,25	5,00	2,66
1.65V/cell	149	119	89,8	54,3	30,7	17,5	13,6	10,7	8,61	7,37	5,00	2,66
1.60V/cell	159	127	94,0	55,6	31,1	17,9	14,0	11,1	8,69	7,42	5,00	2,66

STANDBY SERIES SP12-50(12V50Ah/10HR)

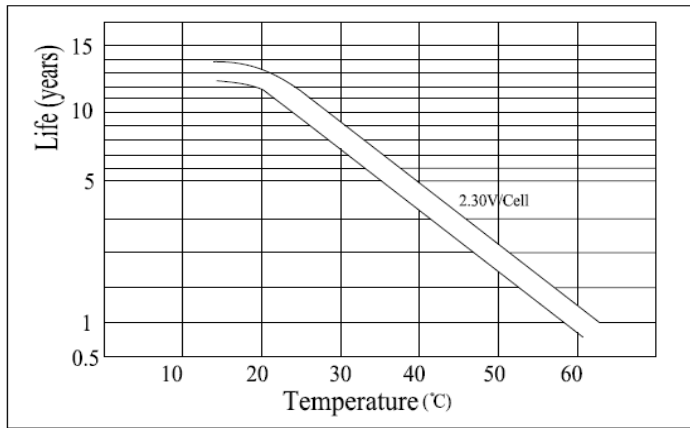
Discharge Characteristics



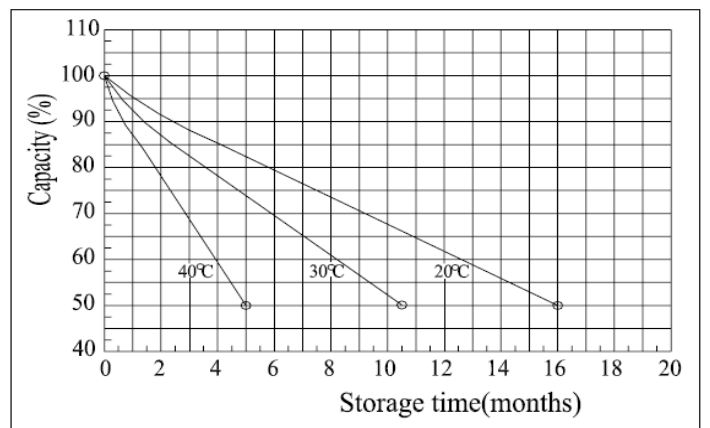
Float Charging Characteristics



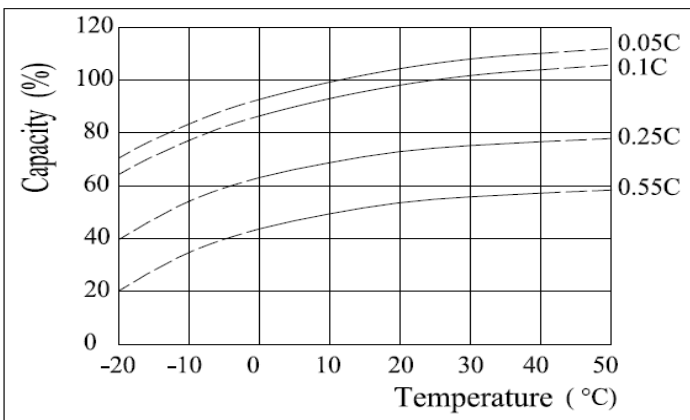
Floating Life on Temperature



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



Temperature Effects in Relation to Battery Capacity



Cycle Life Relation to Depth of Discharge

