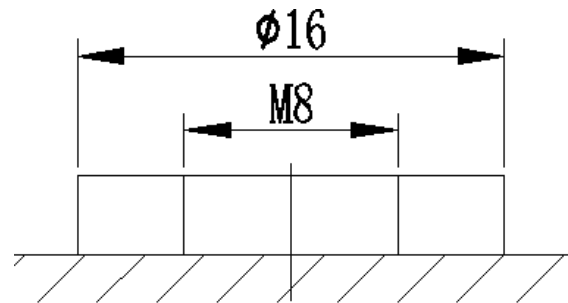
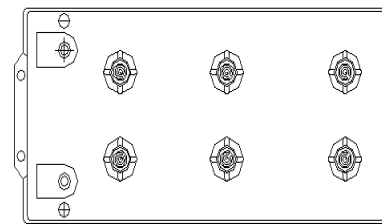
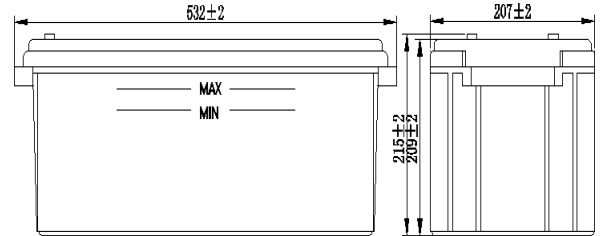




Specifications

Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	140Ah
	5HR(10.5V)	126Ah
	1HR(9.60V)	78.4Ah
Dimension	Length	532 ± 2mm (20.9inch)
	Width	207 ± 2mm (8.15inch)
	Height	209 ± 2mm (8.23inch)
	Total Height	T11: 215 ± 2mm (8.46inch)
Battery Weigh	Dry	31.8kg (70.1lbs) ± 4%
	Wet	46.5kg (102.5lbs) ± 4%
Acid Weight (d=1.24kg/l)		Approx. 14.7kg (32.4lbs)
Terminal type		T11
Internal resistance (Fully charged, 25°C)		Approx. 6.4m Ω
Capacity affected by temperature (10HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	Remaining Capacity: 65%
Nominal operating temperature		25°C ± 3°C (77°F ± 5°F)
Operating temperature range	Discharge	-15°C ~ 50°C (5°F ~ 122°F)
	Charge	-10°C ~ 50°C (14°F ~ 122°F)
	Storage	-20°C ~ 50°C (-4°F ~ 122°F)
Float charging voltage(25°C)		13.20 to 13.44V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.10 to 14.40V Temperature compensation: -30mV/°C
Maximum charging current		42A
Terminal material		Copper
Maximum discharge current		625A (5 sec.)
Designed floating life(20°C)		20 years



Terminal T11

- ◆ Tubular Positive Plate;
- ◆ Flooded Battery;
- ◆ Transparent Container.

Constant Current Discharge Characteristics (A, 25°C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	6h	8h	10h	20h	24h
1.60V	171	164	148	115	78.4	46.9	36.7	25.9	22.0	16.8	14.3	7.70	6.70
1.65V	166	159	145	113	77.2	46.6	36.5	25.7	21.9	16.7	14.2	7.68	6.69
1.70V	159	152	139	109	75.3	46.2	35.9	25.4	21.6	16.5	14.2	7.66	6.67
1.75V	152	146	135	106	73.8	45.5	35.7	25.2	21.4	16.4	14.1	7.61	6.63
1.80V	143	138	128	103	71.5	44.4	34.6	24.4	20.8	15.9	14.0	7.56	6.58

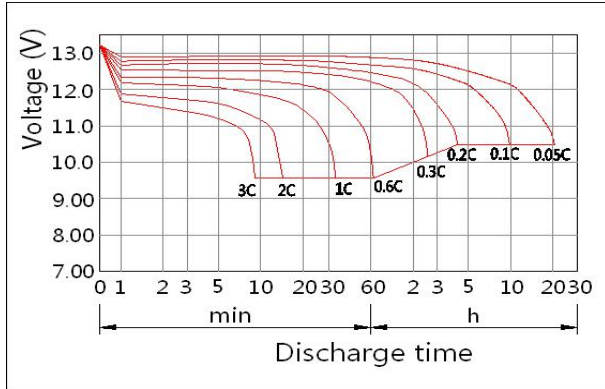
Constant Power Discharge Characteristics (Watt, 25°C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h
1.60V	306	295	272	215	149	90.5	71.9	57.8	51.0	43.3	33.3	28.4	15.4	13.5
1.65V	297	286	265	210	147	90.0	71.4	57.4	50.7	43.1	33.1	28.3	15.4	13.4
1.70V	284	274	255	204	143	89.2	70.5	56.6	50.0	42.5	32.7	28.2	15.3	13.4
1.75V	272	262	247	199	140	87.8	70.0	56.3	49.6	42.2	32.4	28.1	15.2	13.3
1.80V	257	248	234	192	136	85.6	67.9	54.6	48.2	40.9	31.5	27.9	15.1	13.2

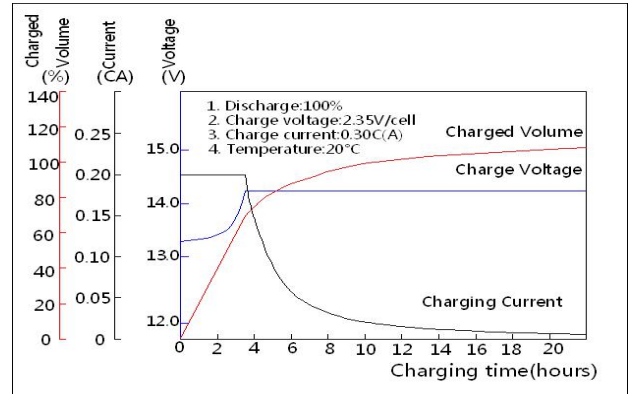
Note: The above characteristics data can be obtained within three charge/discharge cycles.



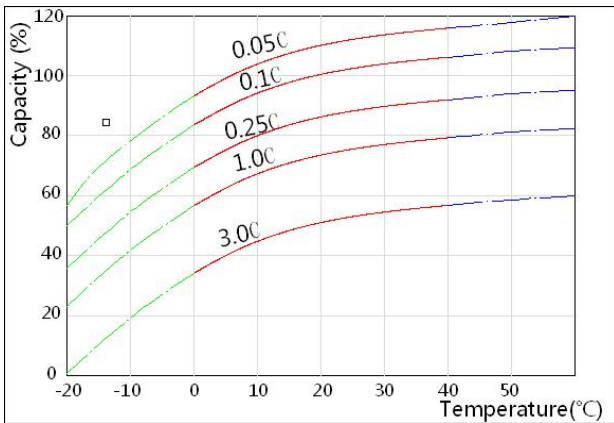
Discharge Characteristics(25°C)



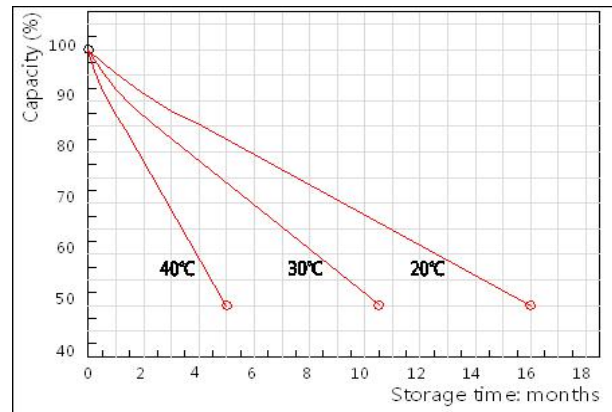
Charging Characteristics(25°C)



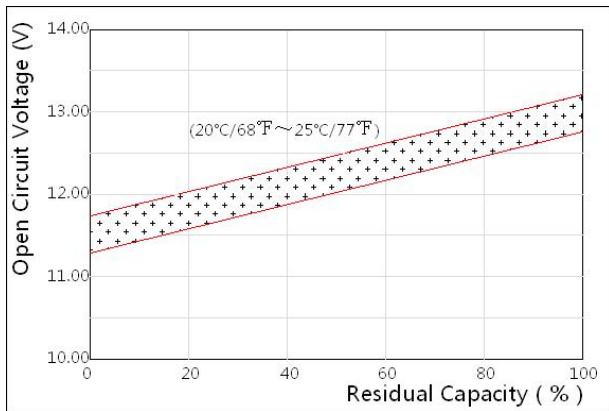
Effect of Temperature on Capacity



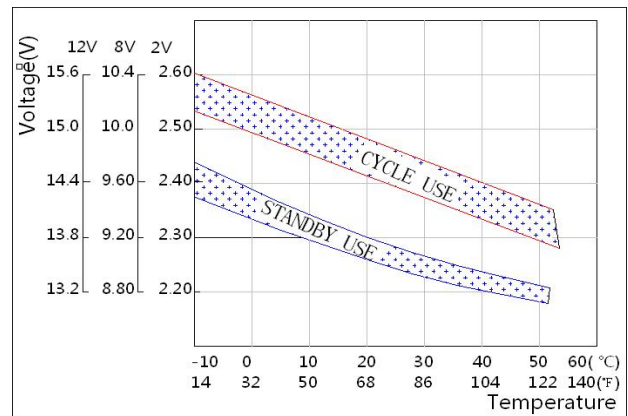
Self-discharge Characteristics



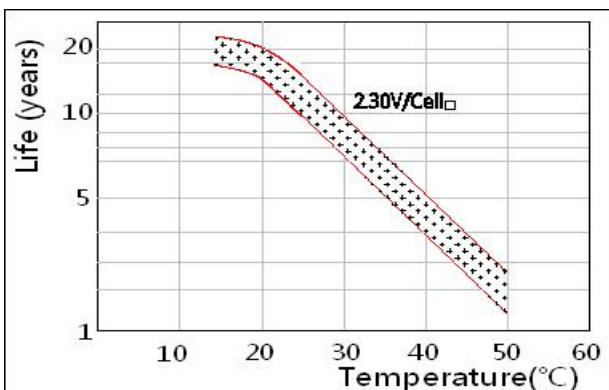
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

