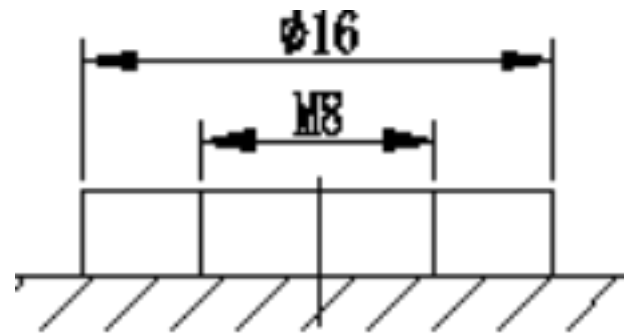
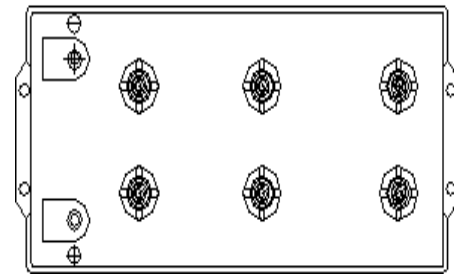
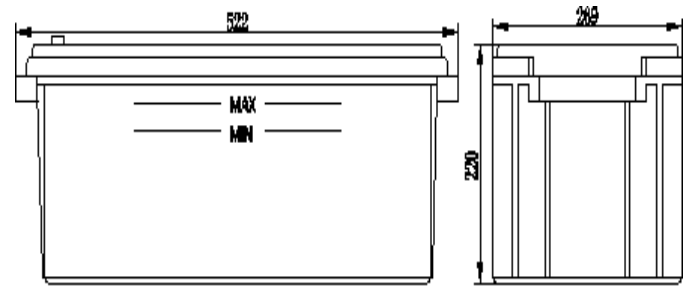




Specifications

Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	200Ah
	5HR(10.5V)	180Ah
	1HR(9.60V)	112Ah
Dimension	Length	522 ± 2mm (20.51inch)
	Width	269 ± 2mm (10.59inch)
	Height	220 ± 2mm (8.66inch)
	Total Height	220 ± 2mm (8.66inch)
Battery Weigh	Dry	46.5kg (102.5lbs) ± 4%
	Wet	67.5kg (148.82lbs) ± 3%
Approx. acid		21.0kg (46.3lbs) ± 3%
Terminal type		T11
Internal resistance (Fully charged, 25°C)		Approx. 2.6m 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		60A
Terminal material		Copper
Maximum discharge current		1160A (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	4h	5h	6h	8h	10h	20h	24h
1.60V	244	234	212	164	112	67.0	52.4	42.1	37.0	31.4	24.0	20.4	11.0	9.57
1.65V	237	227	207	161	110	66.6	52.1	41.9	36.8	31.2	23.9	20.3	11.0	9.55
1.70V	227	218	199	156	108	66.0	51.4	41.3	36.3	30.8	23.6	20.3	10.9	9.52
1.75V	217	208	192	152	105	65.0	51.0	41.0	36.0	30.6	23.4	20.1	10.9	9.47
1.80V	205	197	182	146	102	63.4	49.5	39.8	34.9	29.7	22.7	20.0	10.8	9.40

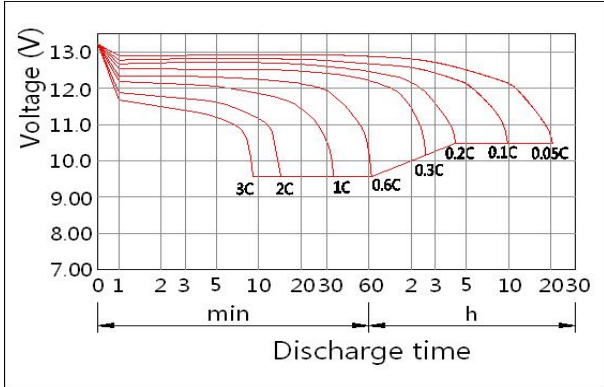
Constant Power Discharge Characteristics (Watt, 25°C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h
1.60V	437	421	388	307	213	129	103	82.5	72.8	61.9	47.6	40.5	22.0	19.2
1.65V	424	409	379	301	210	129	102	82.1	72.4	61.6	47.3	40.4	21.9	19.2
1.70V	406	392	365	291	204	127	101	80.9	71.4	60.7	46.7	40.3	21.9	19.1
1.75V	389	375	352	284	200	125	100	80.4	70.9	60.3	46.3	40.1	21.8	19.0
1.80V	367	354	334	274	194	122	97.0	77.9	68.8	58.5	44.9	39.8	21.6	18.9

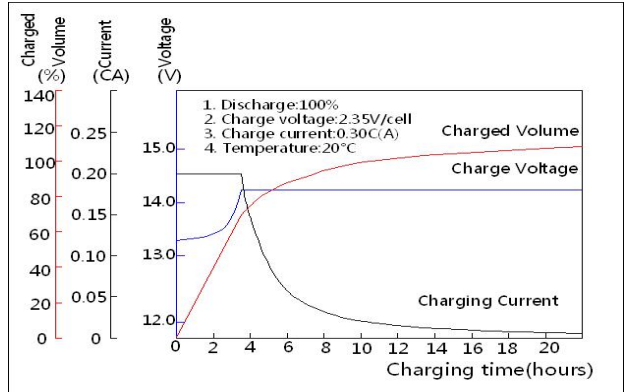
Note: The above characteristics data can be obtained within three charge/discharge cycles.



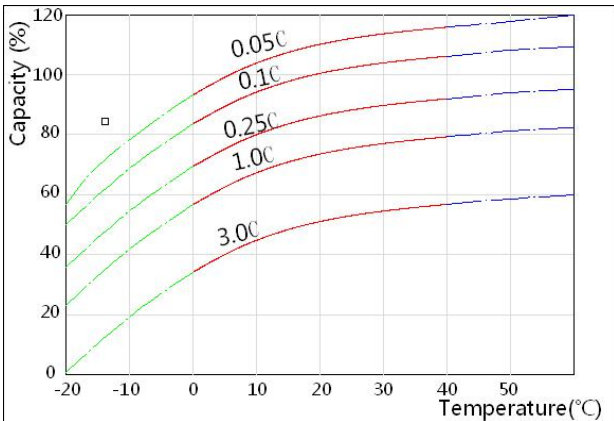
Discharge Characteristics(25°C)



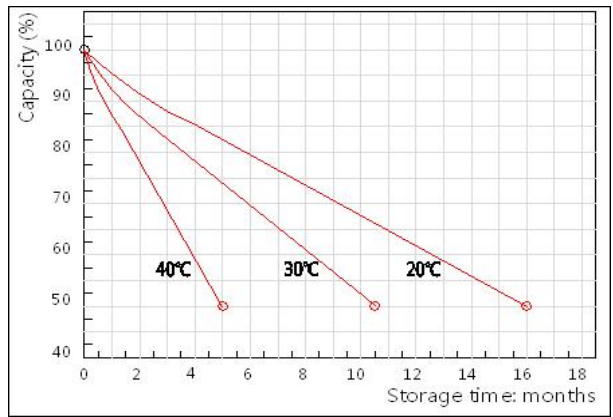
Charging Characteristics(25°C)



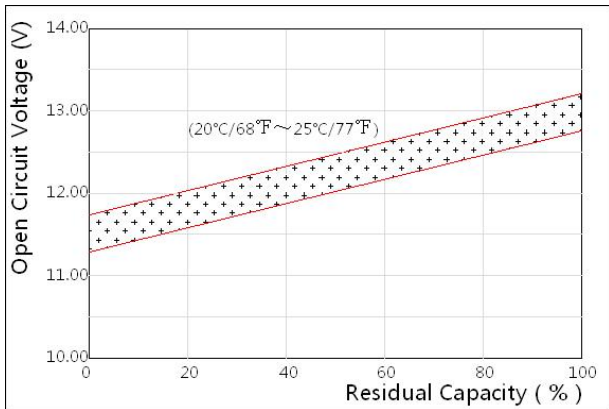
Effect of Temperature on Capacity



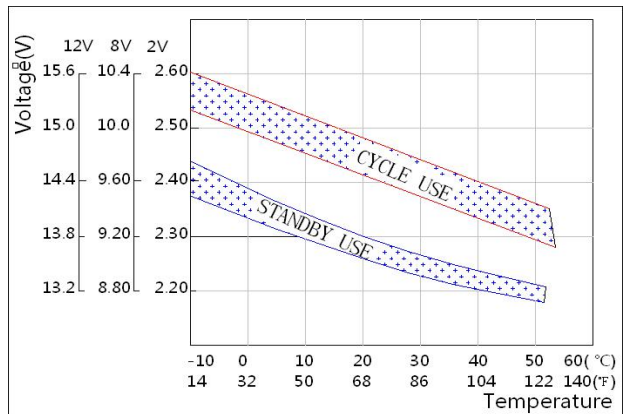
Self-discharge Characteristics



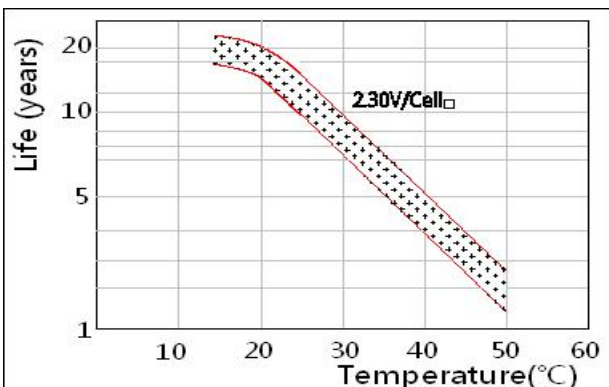
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

