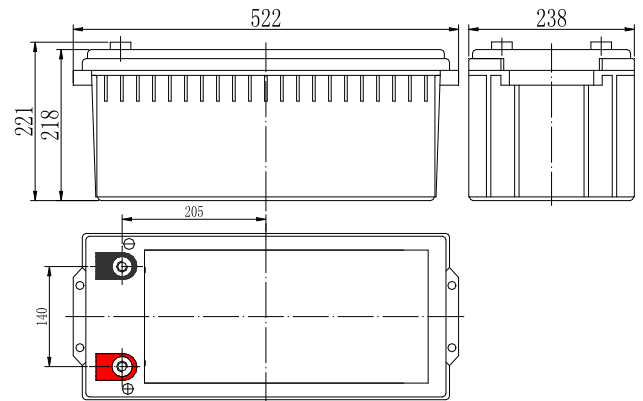


Specifications

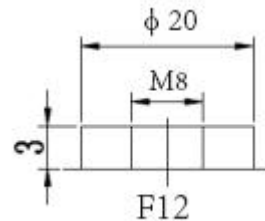
Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	200Ah
	5HR(10.5V)	170Ah
	1HR(9.60V)	120Ah
Dimension	Length	522±2mm (20.55inch)
	Width	238±2mm (9.37inch)
	Height	218±2mm (8.58inch)
	Total Height	221±2mm (8.70inch)
Approx. Weight		59.5kg (131.2lbs)±5%
Terminal type		F12
Internal resistance (Fully charged, 25°C)		Approx. 3mΩ
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)		13.50 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.60 to 14.80V Temperature compensation: -30mV/°C
Maximum charging current		60A
Maximum discharge current		1600A(5 sec.)
Designed floating life(20°C)		12 years



Dimensions



Terminal



Constant Current Discharge Characteristics (A, 25°C)

F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	380	316	192	120	73.0	51.6	40.8	34.6	24.4	20.4	10.8
9.90V	368	308	189	118	72.6	51.4	40.6	34.4	24.4	20.4	10.8
10.2V	354	298	183	115	72.0	51.0	40.2	34.2	24.2	20.2	10.8
10.5V	338	286	178	113	71.0	50.6	40.0	34.0	24.0	20.2	10.7
10.8V	320	272	172	109	69.2	49.0	38.8	33.0	23.2	20.0	10.6

Constant Power Discharge Characteristics (Watt, 25°C)

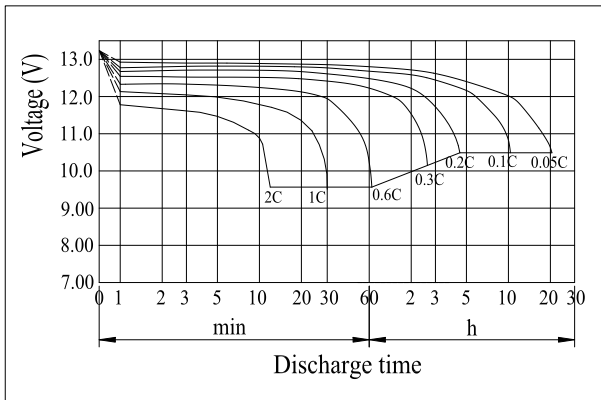
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	4104	3470	2158	1368	846	606	480	410	290	244	129
9.90V	3980	3386	2116	1348	842	604	476	408	290	242	129
10.2V	3816	3262	2050	1314	834	600	474	404	288	242	129
10.5V	3652	3150	2002	1288	822	596	470	402	286	240	128
10.8V	3448	2984	1928	1248	800	578	456	390	276	238	127

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

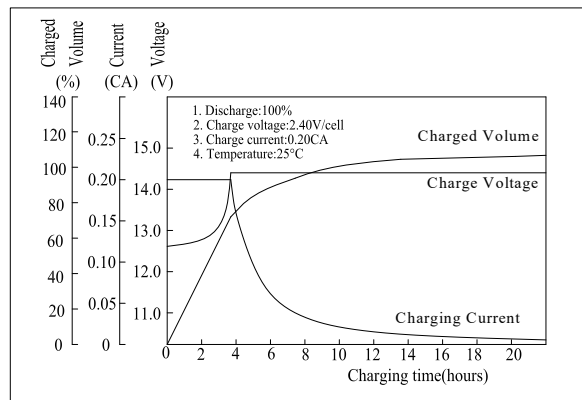
Construction

Component	Positive plate	Negative plate	Container	Cover	Separator	Electrolyte	Safety valve	Terminal
Raw material	Lead dioxide	Lead	ABS	ABS	AGM	Sulfuric acid	Rubber	Copper

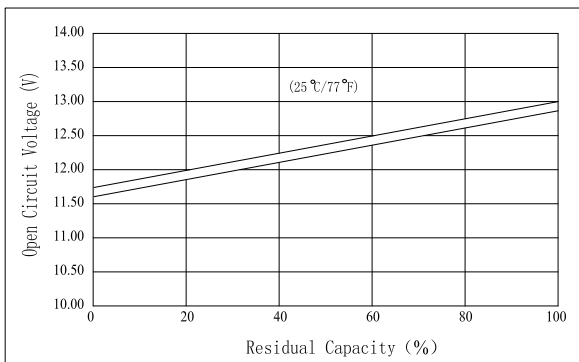
Discharge Characteristics(25°C)



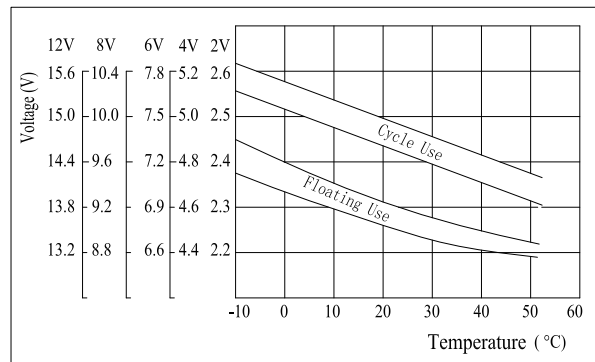
Charging Characteristics(25°C)



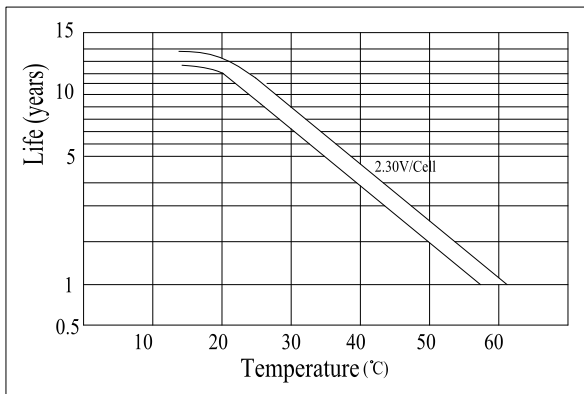
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



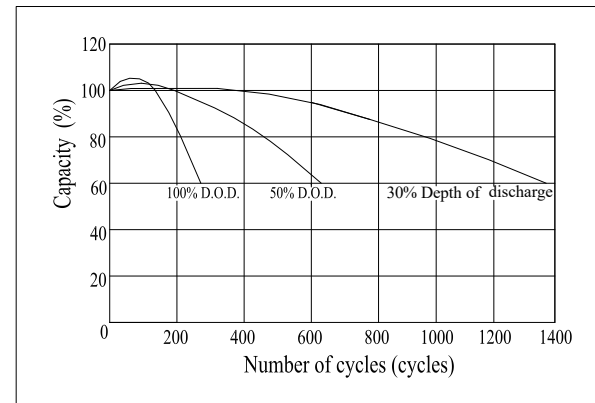
The Relationship for Charging Voltage and Temperature



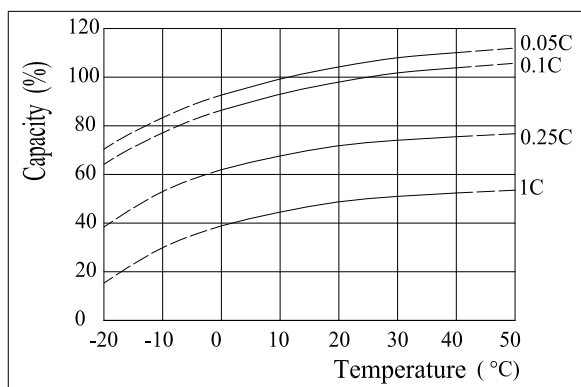
Floating Life on Temperature



Cycle Life on D.O.D(25°C)



Effect of Temperature on Capacity



Self-discharge Characteristics

