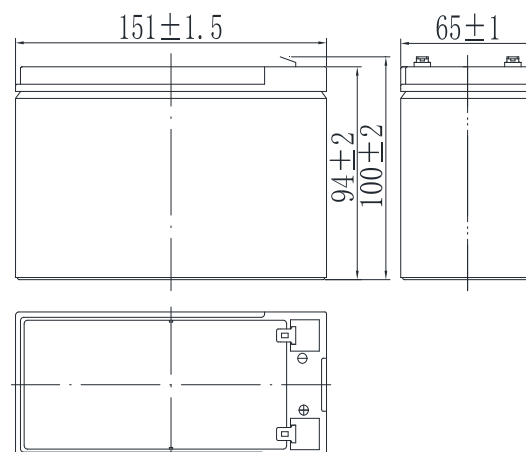


Specifications

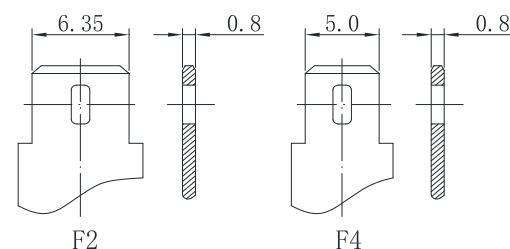
Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	9.6Ah
	10HR(10.5V)	9.0Ah
	1HR(9.60V)	6.3Ah
Dimension	Length	151 ± 1.5mm (5.94inch)
	Width	65 ± 1mm (2.56inch)
	Height	94 ± 2mm (3.70inch)
	Total Height	100 ± 2mm (3.94inch)
Approx. Weight		2.65kg (5.84lbs) ± 5%
Terminal type		F2/F4
Internal resistance (Fully charged, 25°C)		Approx. 17m Ω
Capacity affected by temperature (20HR)	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)		13.60 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.60 to 14.80V Temperature compensation: -30mV/°C
Maximum charging current		2.7A
Maximum discharge current		135A(5 sec.)
Designed floating life(20°C)		5 years



Dimensions



Terminal



Constant Current Discharge Characteristics (A, 25°C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	37.0	23.4	18.3	10.3	6.36	3.48	2.41	1.99	1.69	0.91	0.50
9.90V	35.9	22.7	17.9	10.1	6.26	3.45	2.38	1.98	1.68	0.91	0.48
10.2V	34.5	21.9	17.2	9.80	6.09	3.42	2.37	1.97	1.68	0.91	0.48
10.5V	33.0	20.9	16.6	9.57	5.97	3.36	2.35	1.95	1.66	0.90	0.48
10.8V	31.2	19.66	15.8	9.22	5.79	3.28	2.28	1.88	1.61	0.89	0.47

Constant Power Discharge Characteristics (Watt, 25°C)

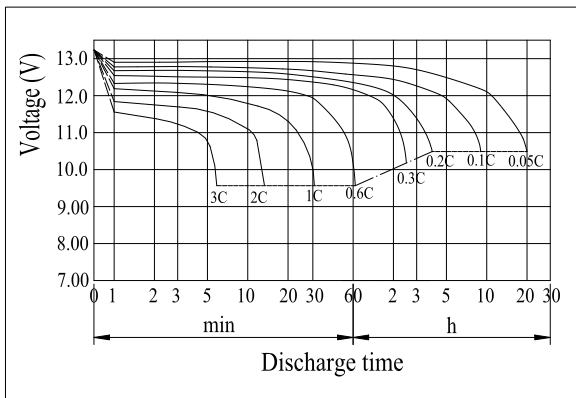
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	413	264	209	118	73.5	40.6	28.5	23.7	20.2	11.0	5.90
9.90V	400	256	204	116	72.4	40.4	28.4	23.5	20.1	11.0	5.88
10.2V	385	246	197	112	70.6	40.0	28.1	23.4	19.9	10.9	5.86
10.5V	368	235	190	110	69.2	39.5	28.0	23.3	19.8	10.9	5.82
10.8V	348	223	180	106	67.0	38.5	27.1	22.6	19.2	10.6	5.70

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

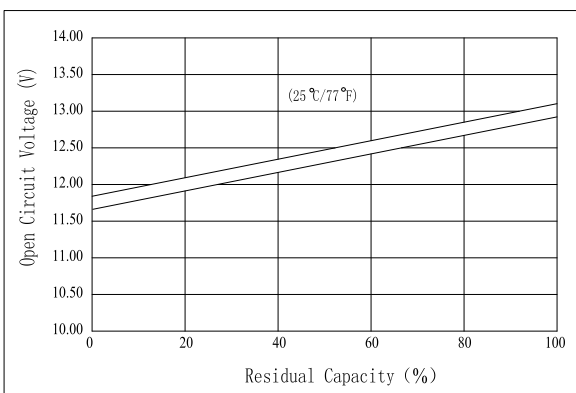
Construction

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

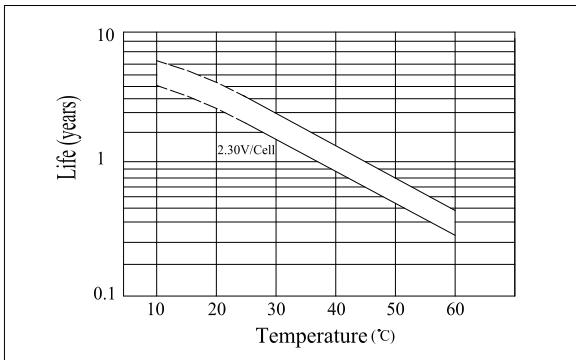
Discharge Characteristics(25°C)



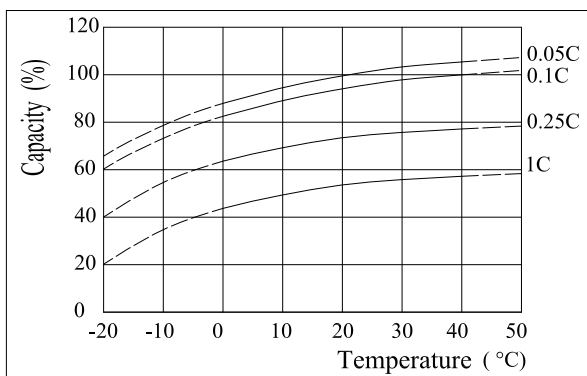
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



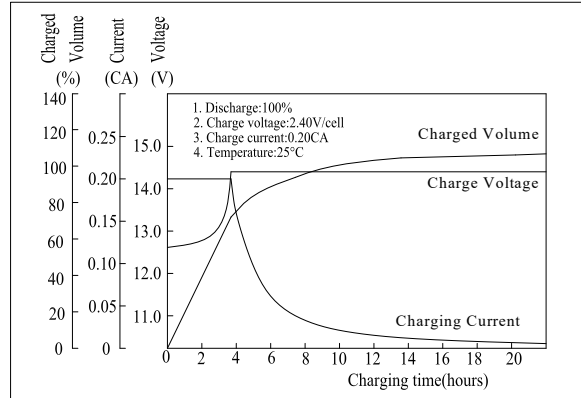
Floating Life on Temperature



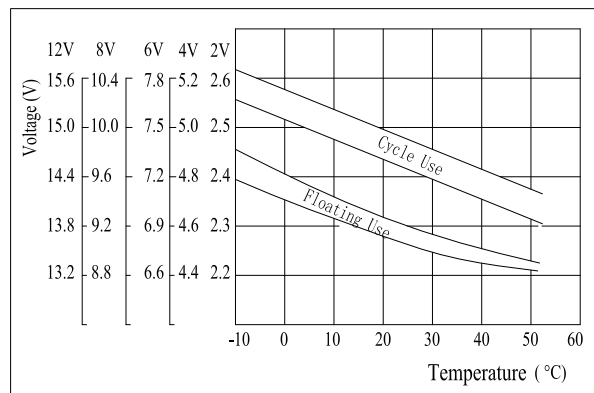
Effect of Temperature on Capacity



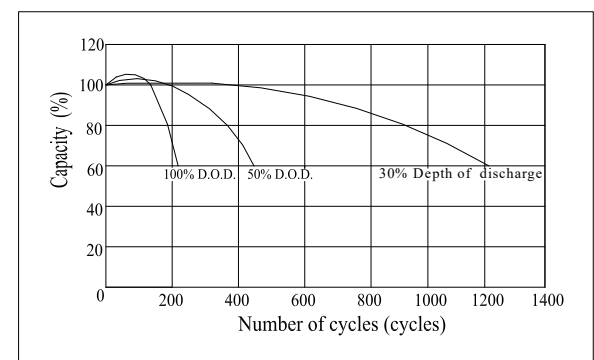
Charging Characteristics(25°C)



The Relationship for Charging Voltage and Temperature



Cycle Life on D.O.D(25°C)



Self-discharge Characteristics

