

ET12-100 (12V 100AH)

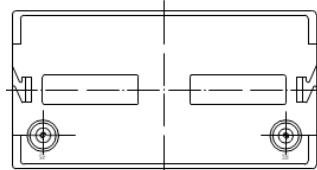
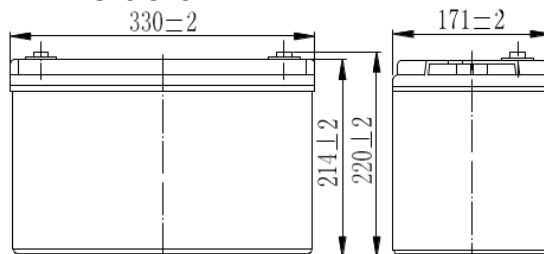


Specifications

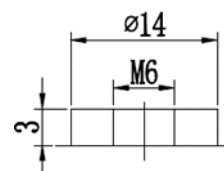
Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	100 Ah
	5HR(10.5V)	88 Ah
	1HR(9.60V)	61 Ah
Dimension	Length	330±2mm
	Width	171±2mm
	Height	214±2mm
Total Height		220±2mm
Approx. Weight		29.5kg ±4%
Terminal type		F14
Internal resistance (Fully charged, 25°C)		Approx. 4.5mΩ
Capacity affected by temperature (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
Operating temperature range	Discharge	-15°C~50°C
	Charge	-10°C~50°C
	Storage	-20°C~50°C
Float charging voltage(25°C)		13.50 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.50 to 15.00V Temperature compensation: -30mV/°C
Maximum charging current		30A
Maximum discharge current		800A(5 sec.)
Designed floating life(20°C)		10 years



Dimensions



Terminal



Constant Current Discharge Characteristics (Ampere @ 25°C)

F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	218	168	101	61.8	36.5	26.0	21.0	18.0	12.3	10.2	5.40
9.90V	211	164	98.5	60.9	36.3	25.9	20.9	17.8	12.3	10.2	5.38
10.2V	203	158	95.5	59.3	36.0	25.7	20.7	17.7	12.2	10.1	5.37
10.5V	194	153	93.2	58.1	35.5	25.5	20.6	17.6	12.1	10.1	5.34
10.8V	183	144	89.7	56.3	34.6	24.7	20.0	17.1	11.7	10.0	5.30

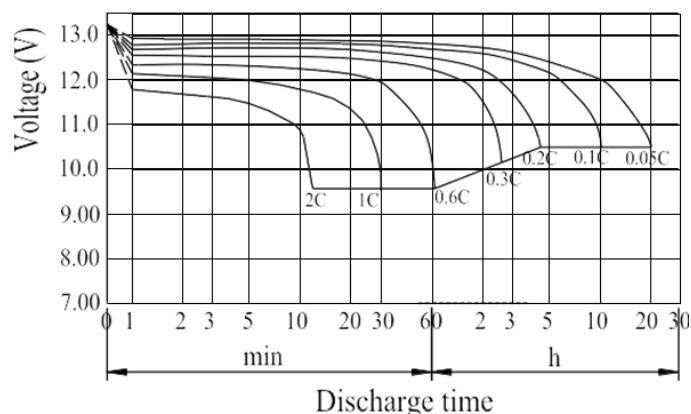
Constant Power Discharge Characteristics (Watt @ 25°C)

F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	2354	1845	1128	705	423	306	247	212	147	122	64.7
9.90V	2284	1800	1105	694	421	304	246	211	146	121	64.6
10.2V	2190	1734	1071	676	417	302	244	209	145	121	64.4
10.5V	2095	1675	1045	662	411	300	242	208	144	120	64.0
10.8V	1978	1586	1007	642	400	291	235	202	139	119	63.6

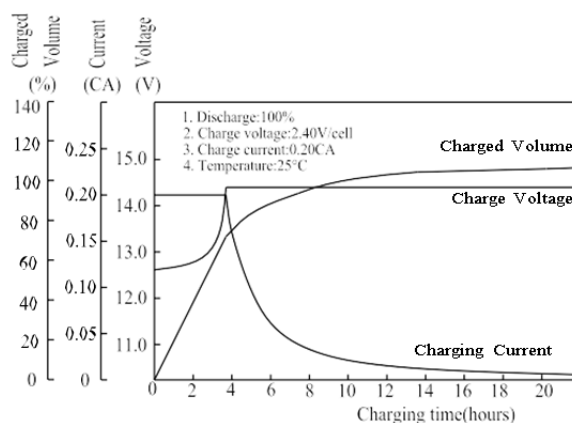
Construction

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

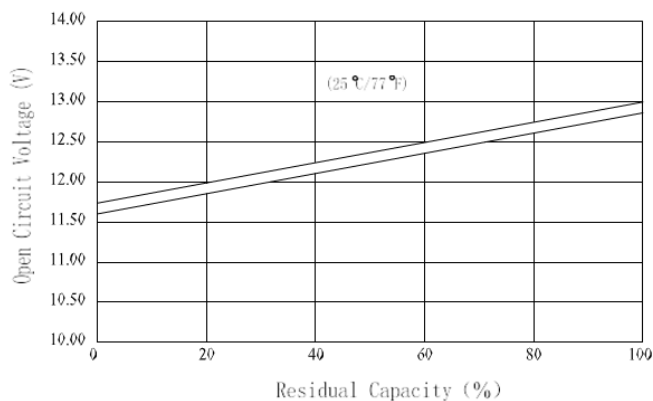
Discharge Characteristics (25°C)



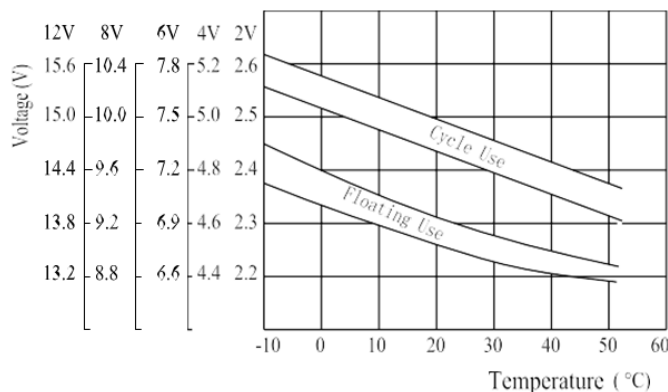
Charging Characteristics (25°C)



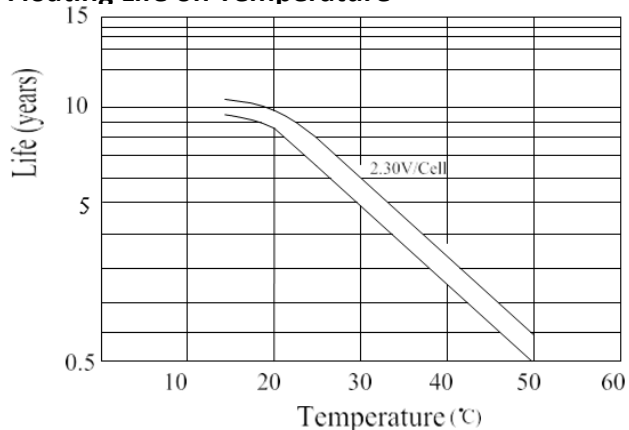
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



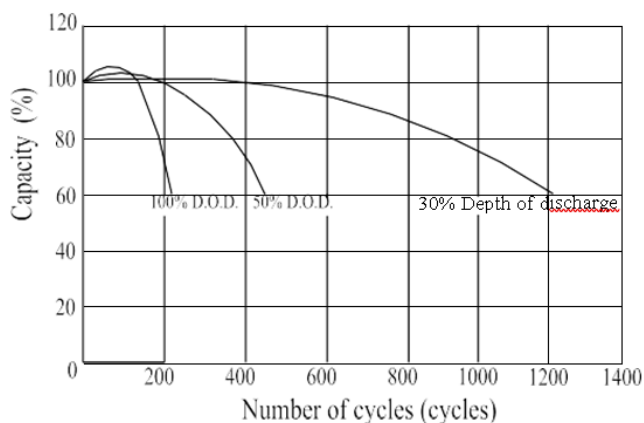
The Relationship for Charging Voltage and Temperature



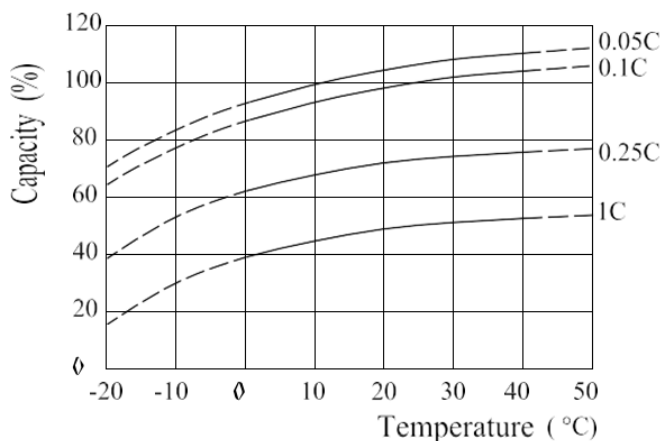
Floating Life on Temperature



Cycle Life on D.O.D (25°C)



Effect of Temperature on Capacity



Self-discharge Characteristics

