

FW6000-B1250

RECHARGEABLE BATTERY

HX12-5



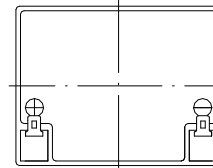
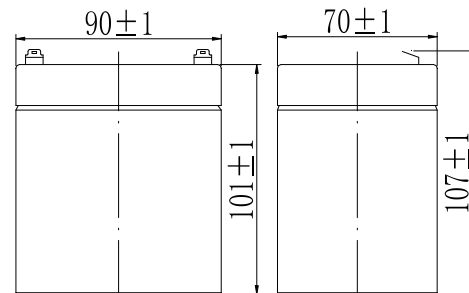
(12V5Ah)

SPECIFICATIONS

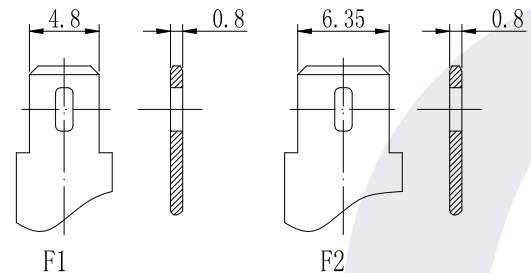
18 MONTHS WARRANTY

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	5Ah
	10HR(10.5V)	4.5Ah
	1HR(9.60V)	2.95Ah
Dimension	Length	90 ± 1mm (3.54inch)
	Width	70 ± 1mm (2.76inch)
	Height	101 ± 1mm (3.98inch)
	Total Height	107 ± 1mm (4.21inch)
Approx. Weight		1.43kg (3.2lbs) ± 5%
Terminal type		F1/F2
Internal resistance (Fully charged, 25°C)		Approx. 45mΩ
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)		14.50 to 15.00V Temperature compensation: -30mV/°C
Maximum charging current		1.35A
Maximum discharge current		67.5A(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	17.2	10.9	8.51	4.79	2.95	1.61	1.12	0.92	0.78	0.43	0.228
9.90V	16.7	10.6	8.30	4.70	2.90	1.60	1.11	0.92	0.78	0.42	0.227
10.2V	16.0	10.13	7.99	4.55	2.83	1.59	1.10	0.91	0.77	0.42	0.226
10.5V	15.3	9.69	7.72	4.44	2.77	1.56	1.09	0.90	0.77	0.42	0.225
10.8V	14.4	9.15	7.31	4.28	2.69	1.52	1.06	0.88	0.75	0.41	0.221

Constant Power Discharge Characteristics (Watt, 25°C)

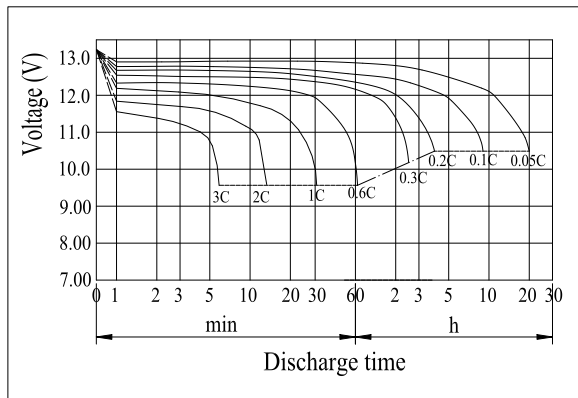
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	192	123	97.0	54.9	34.1	18.9	13.3	11.0	9.37	5.11	2.74
9.90V	186	119	94.6	53.8	33.6	18.8	13.2	10.9	9.32	5.09	2.73
10.2V	178	114	91.1	52.2	32.8	18.6	13.1	10.8	9.25	5.07	2.72
10.5V	171	109	88.0	50.9	32.1	18.3	13.0	10.8	9.19	5.04	2.70
10.8V	161	103	83.4	49.0	31.1	17.8	12.6	10.4	8.91	4.94	2.65

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

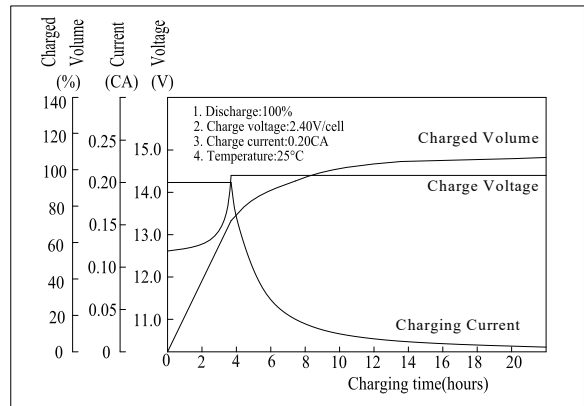
Construction

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

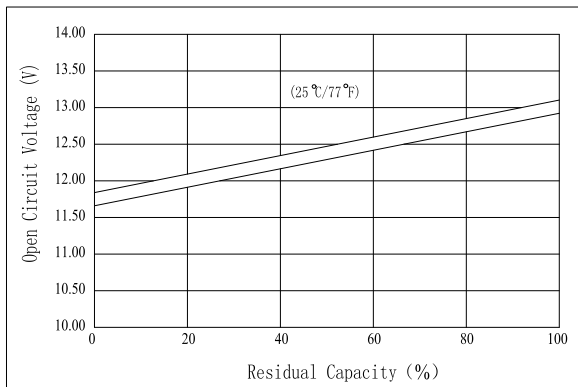
Discharge Characteristics(25°C)



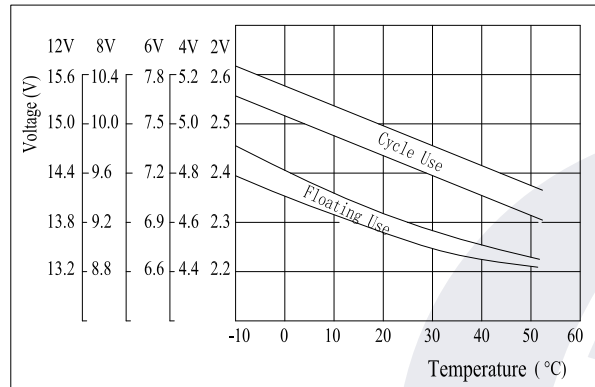
Charging Characteristics(25°C)



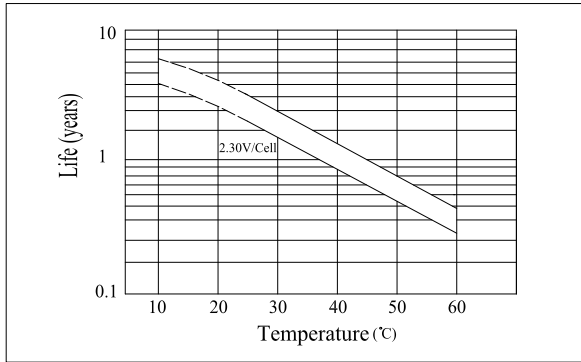
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



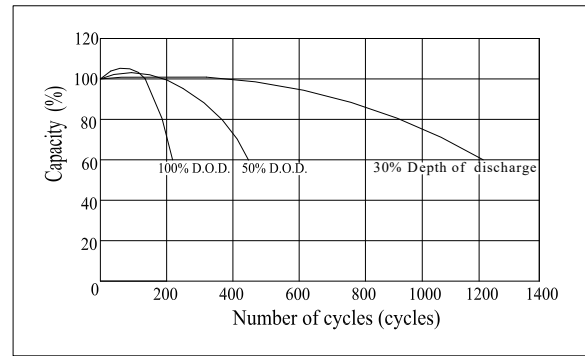
The Relationship for Charging Voltage and Temperature



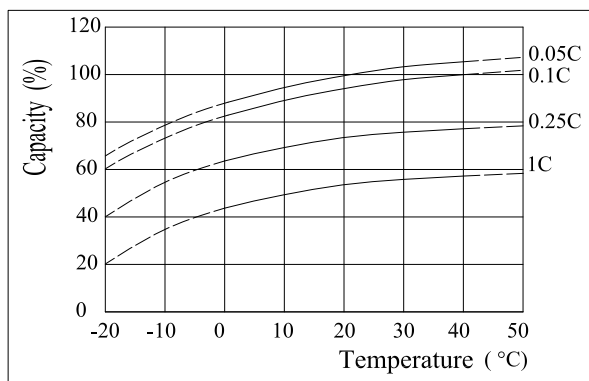
Floating Life on Temperature



Cycle Life on D.O.D(25°C)



Effect of Temperature on Capacity



Self-discharge Characteristics

