

FW6000-B1270

RECHARGEABLE BATTERY

HX12-7



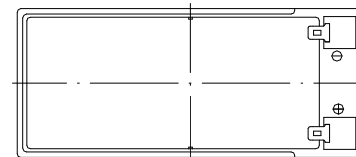
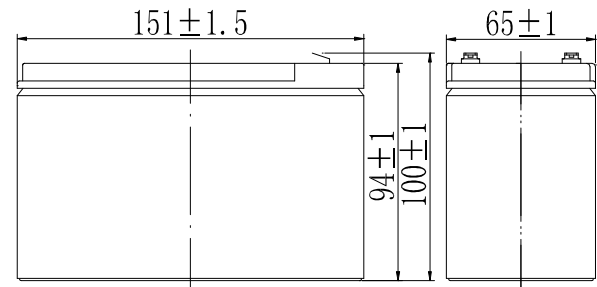
(12V7Ah)

SPECIFICATIONS

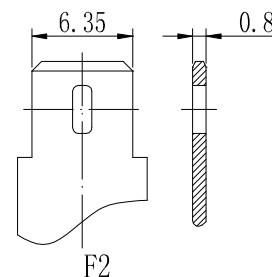
18 MONTHS WARRANTY

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	7.0Ah
	10HR(10.5V)	6.5Ah
	1HR(9.60V)	4.3Ah
Dimension	Length	151 ± 1.5mm (5.94inch)
	Width	65 ± 1mm (2.56inch)
	Height	94 ± 1mm (3.70inch)
	Total Height	100 ± 1mm (3.94inch)
Approx. Weight		2.16kg (4.76lbs) ± 5%
Terminal type		F2
Internal resistance (Fully charged, 25°C)		Approx. 29mΩ
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	1.95A	
Maximum discharge current	97.5A(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	26.11	16.47	12.89	7.27	4.47	2.45	1.69	1.40	1.19	0.65	0.35
9.90V	25.24	16.03	12.57	7.13	4.40	2.43	1.68	1.39	1.18	0.64	0.35
10.2V	24.27	15.38	12.13	6.90	4.29	2.41	1.67	1.39	1.17	0.64	0.35
10.5V	23.18	14.73	11.70	6.74	4.20	2.37	1.66	1.38	1.17	0.64	0.35
10.8V	21.88	13.87	11.05	6.49	4.07	2.31	1.60	1.33	1.13	0.63	0.34

Constant Power Discharge Characteristics (Watt, 25°C)

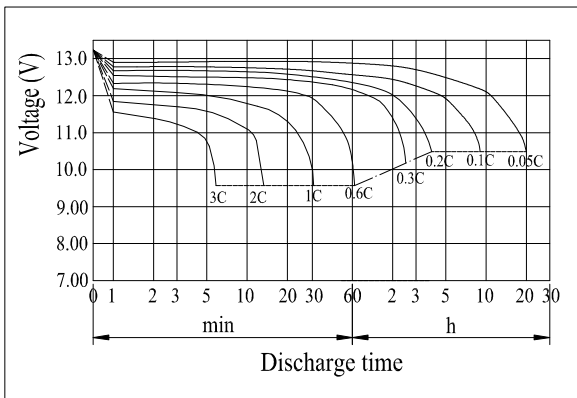
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	291.42	186.33	147.33	83.31	51.78	28.60	20.15	16.68	14.19	7.76	4.16
9.90V	282.75	180.92	143.00	81.68	51.03	28.49	19.93	16.58	14.08	7.72	4.14
10.2V	270.83	173.33	138.67	79.08	49.73	28.17	19.83	16.47	14.08	7.69	4.12
10.5V	258.92	165.75	133.25	77.24	48.75	27.73	19.72	16.36	13.98	7.64	4.10
10.8V	244.83	156.00	126.75	74.43	47.23	27.08	19.07	15.82	13.54	7.49	4.01

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

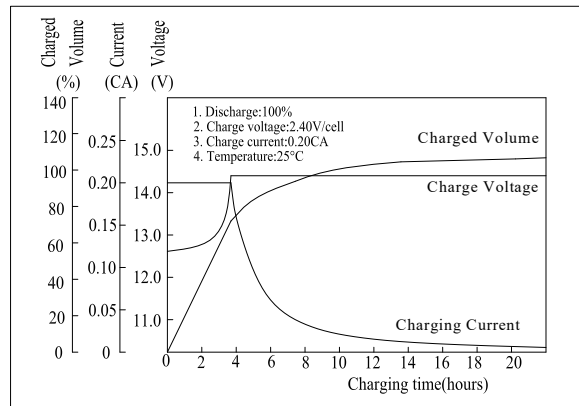
Construction

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

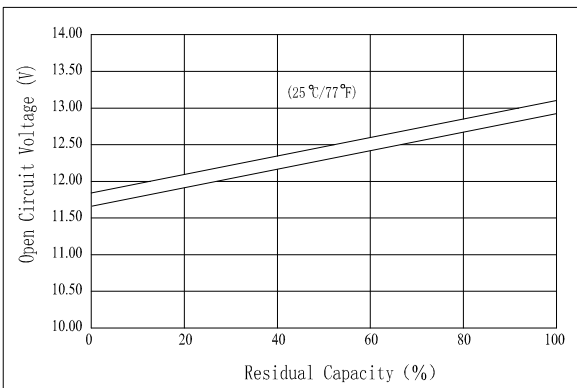
Discharge Characteristics(25°C)



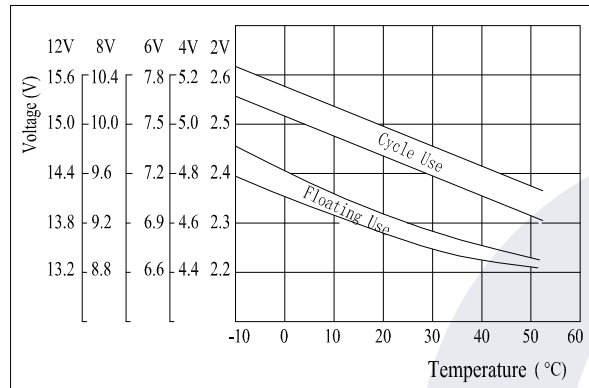
Charging Characteristics(25°C)



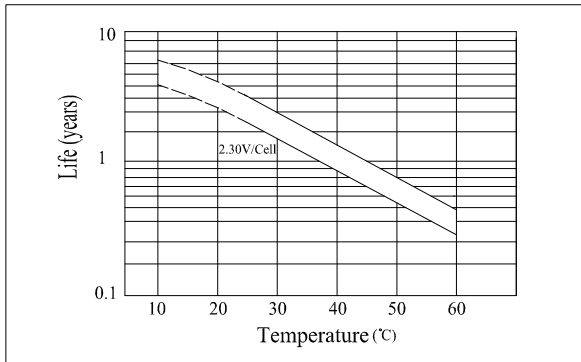
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



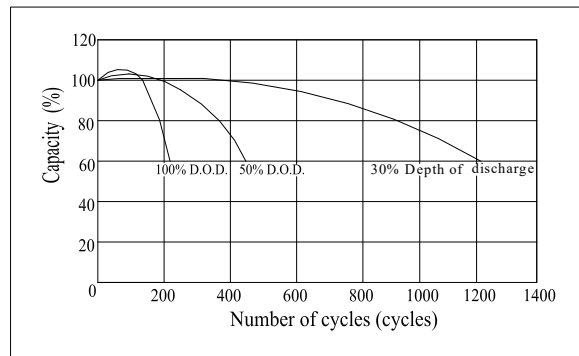
The Relationship for Charging Voltage and Temperature



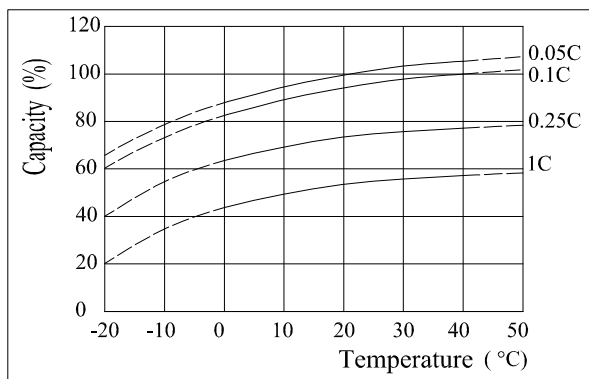
Floating Life on Temperature



Cycle Life on D.O.D(25°C)



Effect of Temperature on Capacity



Self-discharge Characteristics

