

FW6000-B12550

RECHARGEABLE BATTERY

HX12-55



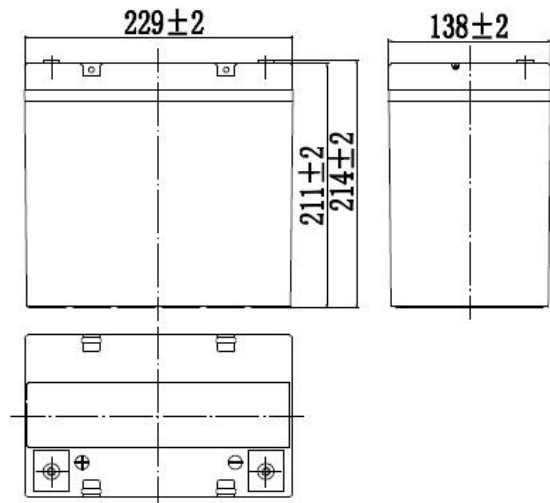
(12V55Ah)

SPECIFICATIONS

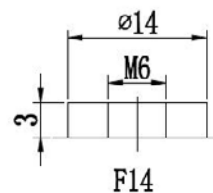
18 MONTHS WARRANTY

Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	55 Ah
	5HR(10.5V)	46.75Ah
	1HR(9.60V)	33Ah
Dimension	Length	229 ± 2mm (9.02inch)
	Width	138 ± 2mm (5.43inch)
	Height	211 ± 2mm (8.31inch)
	Total Height	214 ± 2mm (8.43inch)
Approx. Weight		16.5kg (36.4lbs) ± 4%
Terminal type		F14
Internal resistance (Fully charged, 25°C)		Approx. 7m Ω
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)		14.40 to 14.70V Temperature compensation: -30mV/°C
Maximum charging current		16.5A
Maximum discharge current		550A(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	104.5	86.9	52.9	33.0	20.1	14.2	11.2	9.5	6.7	5.6	3.0
9.90V	101.4	84.8	51.8	32.6	20.0	14.1	11.1	9.5	6.7	5.6	3.0
10.2V	97.2	81.7	50.3	31.7	19.8	14.0	11.1	9.4	6.6	5.6	2.9
10.5V	93.1	78.9	49.1	31.0	19.5	14.0	11.0	9.4	6.6	5.5	2.9
10.8V	87.8	74.7	47.3	30.1	19.0	13.5	10.7	9.1	6.4	5.5	2.9

Constant Power Discharge Characteristics (Watt, 25°C)

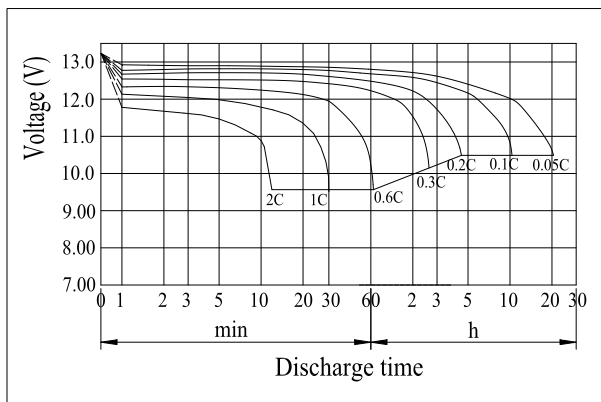
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1129	954	594	376	233	167	132	112	80.0	66.9	35.6
9.90V	1095	932	582	371	231	166	131	112	79.5	66.8	35.5
10.2V	1049	897	564	361	229	165	130	111	79.0	66.6	35.4
10.5V	1004	867	550	354	226	164	130	110	78.4	66.1	35.2
10.8V	948	821	530	343	220	158	125	107	76.0	65.7	35.0

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

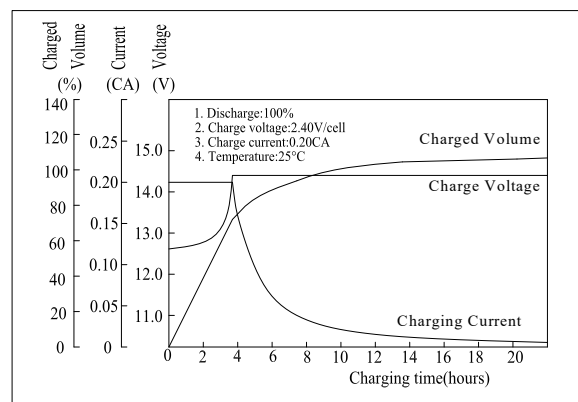
Construction

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

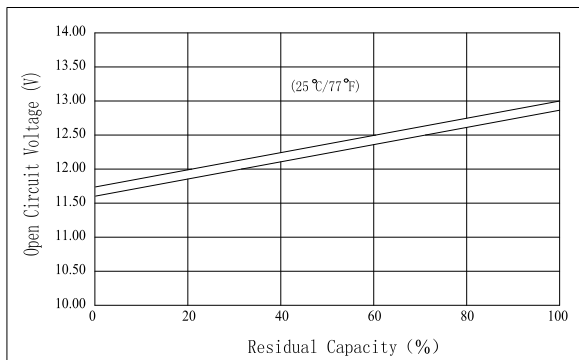
Discharge Characteristics(25°C)



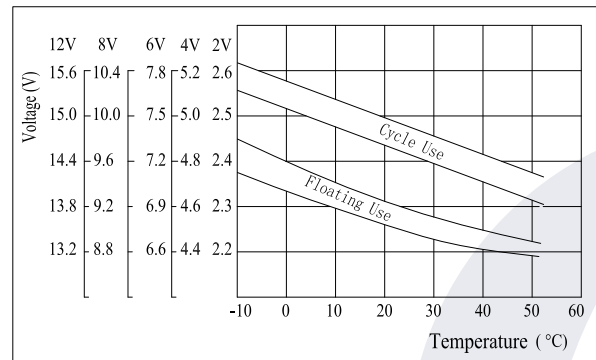
Charging Characteristics(25°C)



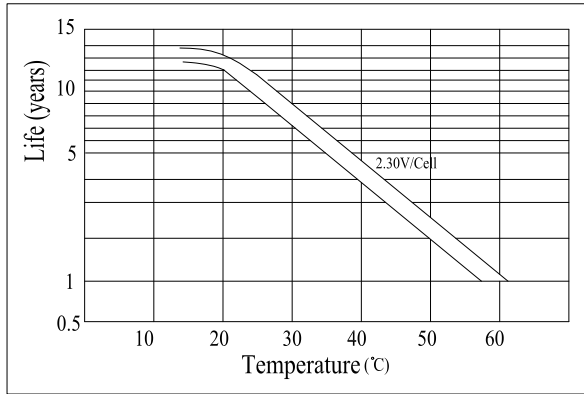
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



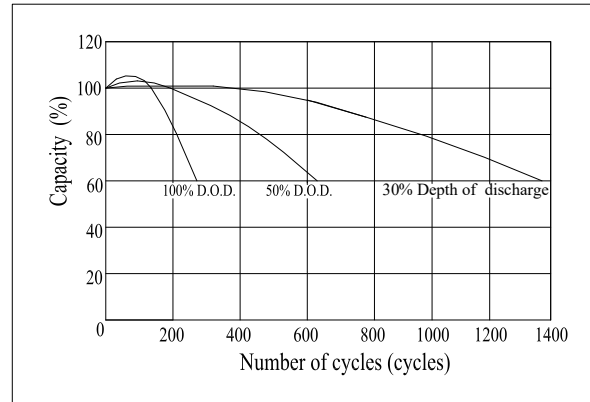
The Relationship for Charging Voltage and Temperature



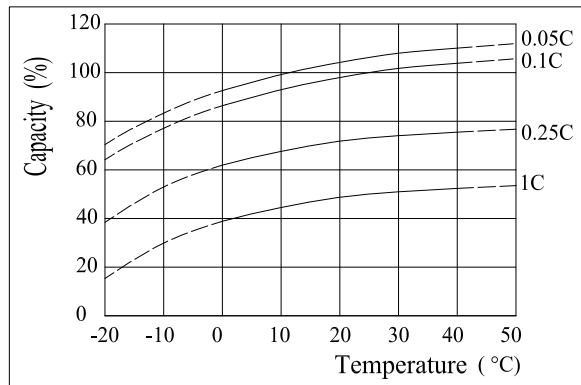
Floating Life on Temperature



Cycle Life on D.O.D(25°C)



Effect of Temperature on Capacity



Self-discharge Characteristics

