

DEEP CYCLE MARINE BATTERY



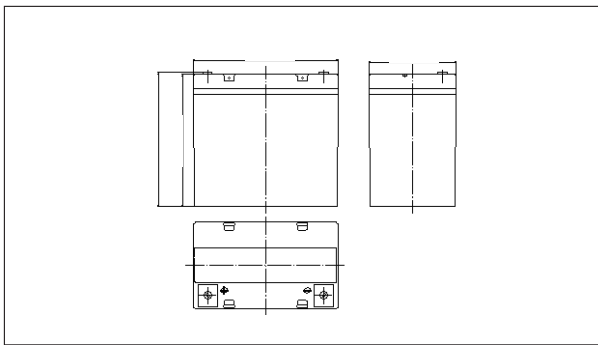
BB1255FM 12V55Ah

Specifications

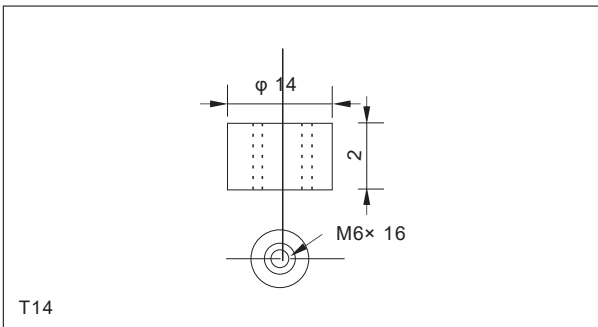
Nominal Voltage	12V	
Rated capacity (10 hour rate)	55Ah	
Dimensions	Length	230± 2mm(9.06inch)
	Width	140± 2mm(5.51inch)
	Height	205± 2mm(8.07inch)
	Total Height	205± 2mm(8.07inch)
Approx. Weight	13.7kg(30.2lbs)± 3%	



Outer dimensions (mm)



Terminal Type (mm)



Characteristics

Capacity (25°C)	10HR(10.8V)	55Ah
	3HR(10.8V)	41.1Ah
	1HR(10.5V)	31Ah
Terminal type		T14
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 months	Remaining Capacity: 91%
	6 months	Remaining Capacity: 82%
	12 months	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)		14.50 to 14.70V Temperature compensation: -30mV/°C
Maximum charging current		11A
Maximum discharge current		500A(5 sec.)
Designed floating life(20°C)		12years

Construction

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

Constant Current Discharge Characteristics Unit:A(25 °C, 77°F)

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	105	86.2	52.3	32.3	20.1	14.3	11.2	9.54	6.73	5.60	2.97
9.90V	102	84.2	51.2	31.9	20.0	14.2	11.2	9.48	6.69	5.59	2.96
10.2V	97.7	81.1	49.7	31.0	19.8	14.1	11.1	9.42	6.65	5.57	2.95
10.5V	93.5	78.3	48.5	30.1	19.5	14.0	11.0	9.35	6.60	5.54	2.94
10.8V	88.3	74.2	46.7	29.1	19.0	13.7	10.7	9.07	6.40	5.50	2.92

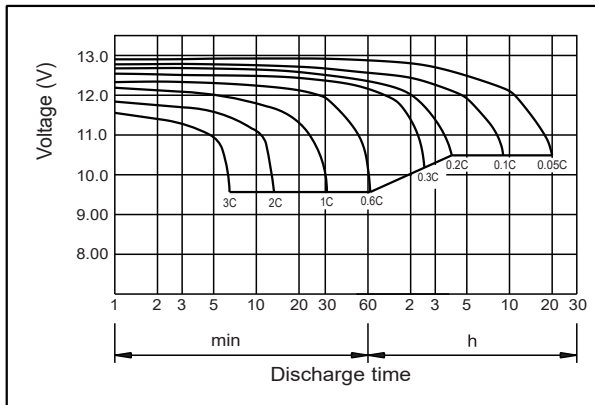
Constant Power Discharge Characteristics Unit:W(25 °C, 77°F)

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1135	947	587	369	233	168	132	113	80.0	66.9	35.6
9.90V	1101	924	575	363	231	167	131	112	79.5	66.7	35.5
10.2V	1056	890	557	354	229	166	130	111	79.0	66.5	35.4
10.5V	1010	860	544	343	226	165	129	111	78.4	66.1	35.2
10.8V	954	814	524	332	220	162	125	107	76.1	65.7	35.0

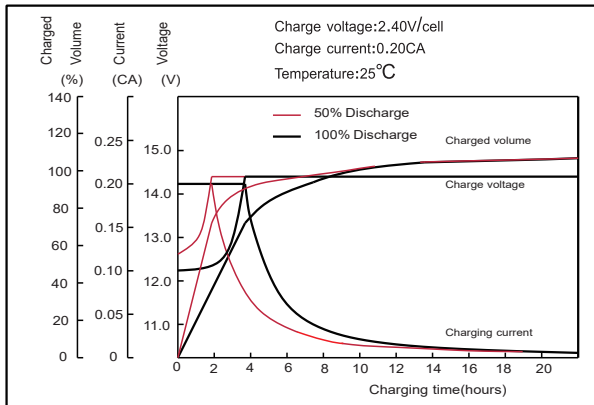
Note: The above characteristics data can be obtained within three charge or discharge cycles.

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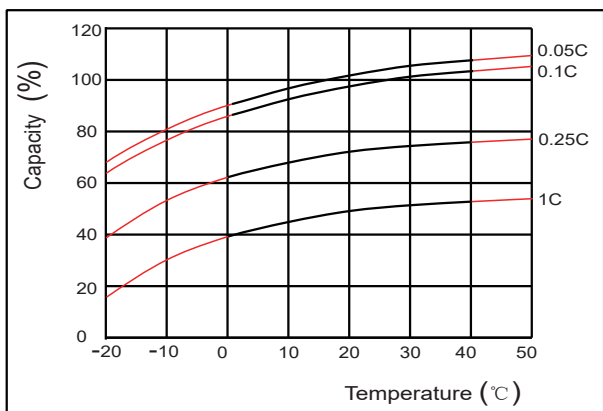
Discharge characteristics(25°C)



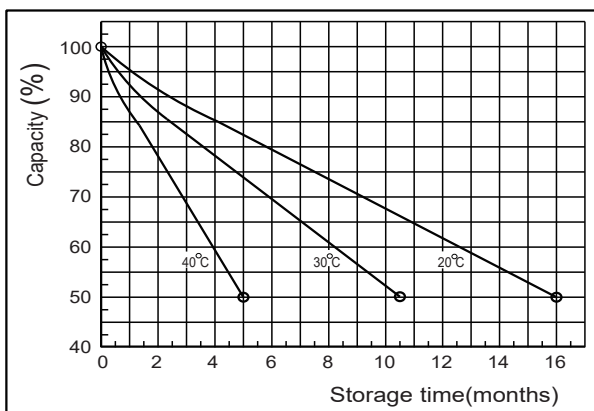
Charging characteristics (25°C)



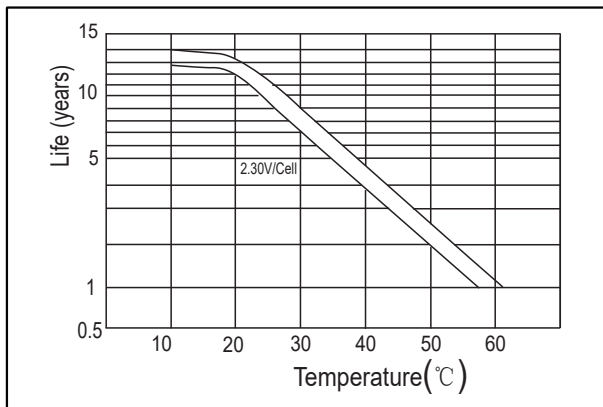
Temperature effects on Capacity



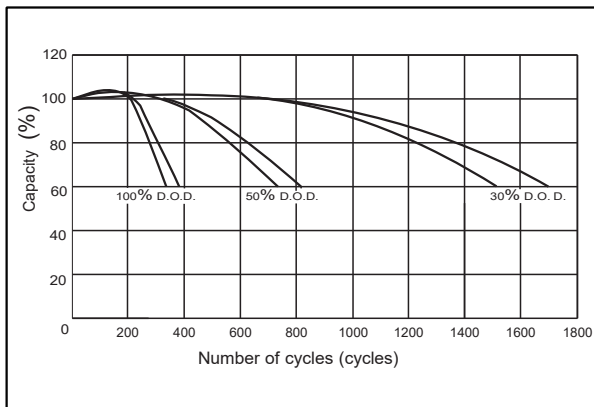
Self-discharge characteristics



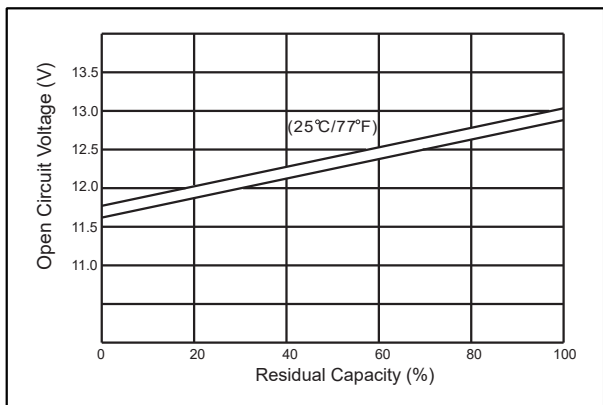
Floating life on Temperature



Cycle life on D.O.D (25 °C)



The relationship for OCV and Capacity (25°C)



The relationship for Charging voltage and Temperature

