

BLUE BATTERY

BL 12-100(GEL)

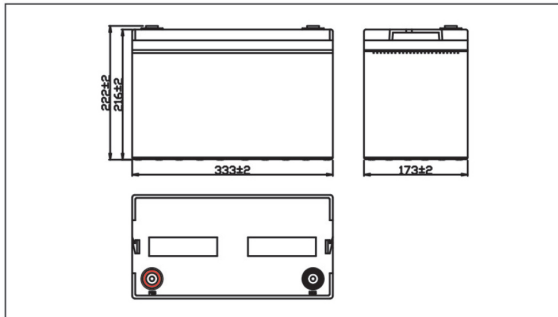
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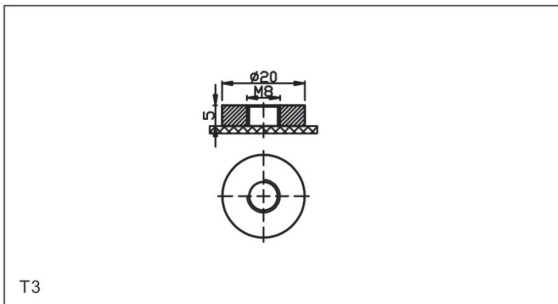
► Specifications

Nominal Voltage		12V
Rated capacity (10 hour rate)		100Ah
Dimensions	Length	333± 1.5mm(13.11inch)
	Width	173± 1mm(6.81inch)
	Height	216± 1mm(8.50inch)
	Total Height	222± 1mm(8.74inch)
Approx. Weight		30.5kg(67.24lbs)± 4%

► Outer Diemensions (mm)



► Terminal Type (mm)



► Characteristics

Capacity (25°C)	20HR(10.5V)	104Ah
	10HR(10.5V)	100Ah
	1HR(9.60V)	61.2Ah
Terminal type		T3
Internal resistance (Fully charged, 25°C)		Approx. 5m Ω
Capacity affected by temperature (20HR)	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 15.00V Temperature compensation: -30mV/°C
Maximum charging current		30A
Maximum discharge current		1000A(5 sec.)
Designed floating life(20°C)		12 years

► 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

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

F.V/Time	10min	15min	30min	1HR	2HR	3HR	5HR	8HR	10HR	20HR
9.60V	217.8	172.8	106.9	61.2	36.1	26.1	18.3	12.0	10.2	5.3
9.90V	209.5	167.2	104.2	59.5	35.8	25.9	18.1	12.0	10.1	5.2
10.2V	206.9	165.6	103.0	58.6	35.6	25.7	18.0	11.9	10.1	5.2
10.5V	196.8	160.2	100.0	57.2	35.3	25.5	17.8	11.8	10.0	5.2
10.8V	175.6	155.8	97.8	56.4	34.9	25.2	17.6	11.7	10.0	5.1

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

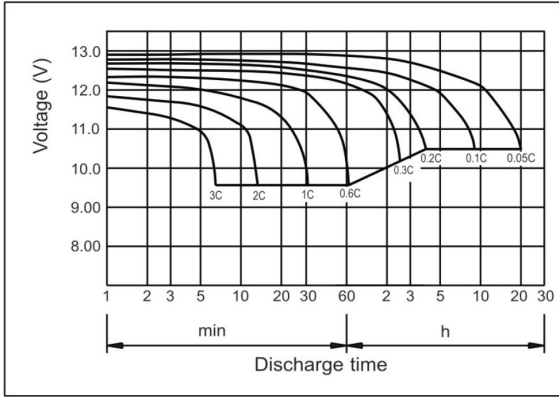
F.V/Time	10min	15min	30min	1HR	2HR	3HR	5HR	8HR	10HR	20HR
9.60V	2352.2	1902.8	1199.9	733.6	418.8	306.9	216.8	144.5	121.8	64.3
9.90V	2340.5	1865.6	1177.5	713.3	414.7	304.4	211.8	141.6	121.2	63.9
10.2V	2234.4	1826.6	1155.3	703.9	412.8	302.9	212.9	143.9	120.8	63.6
10.5V	2204.2	1794.2	1149.9	657.8	408.9	300.0	209.9	143.6	119.8	63.4
10.8V	1984.3	1745.0	1115.1	643.0	404.9	297.0	207.9	142.6	118.2	63.0

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

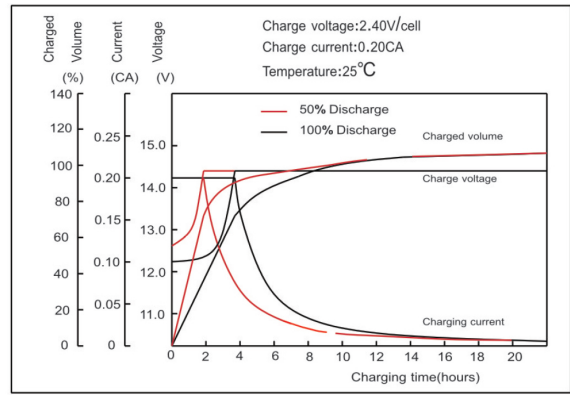
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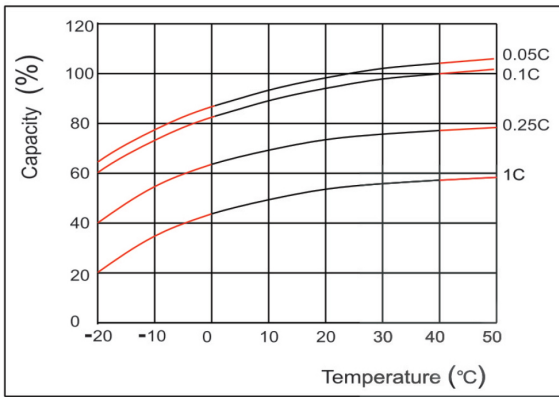
► Discharge Characteristics (25°C)



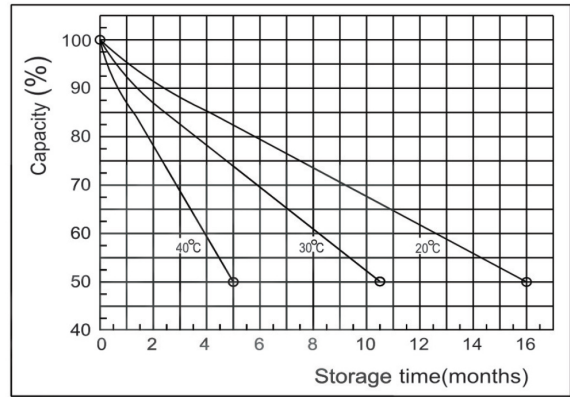
► Charging Characteristics (25°C)



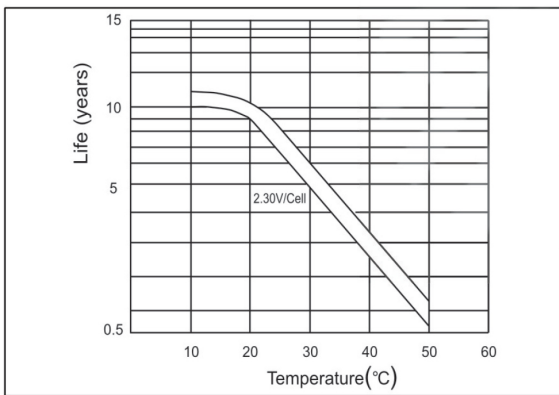
► Temperature effects on Capacity



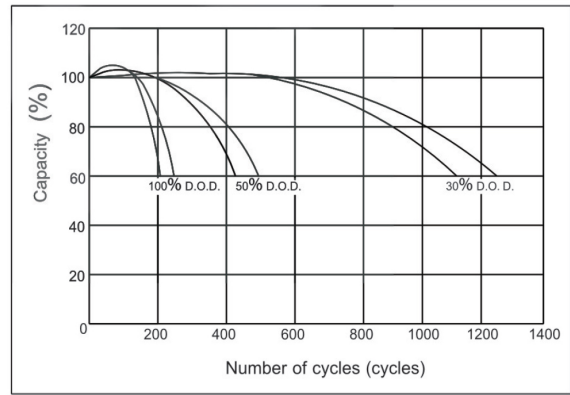
► Self-Discharge Characteristics



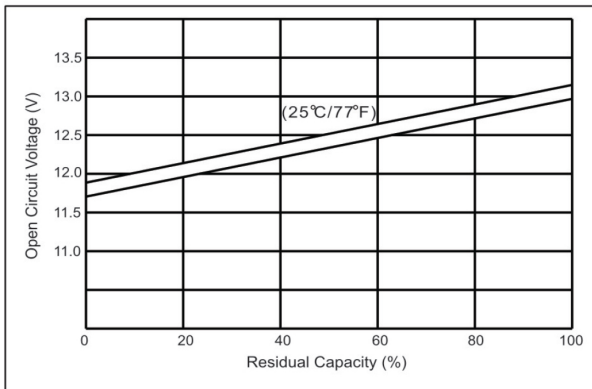
► Floating Life on Temperature



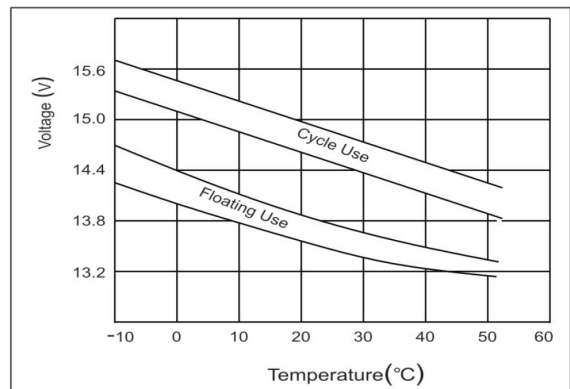
► Cycle Life on D.O.D (25°C)



► The Relationship for OCV and Capacity (25°C)



► The Relationship for Charging Voltage and Temperature



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