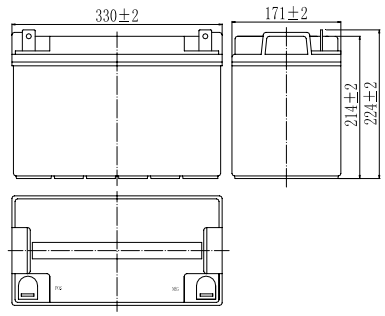
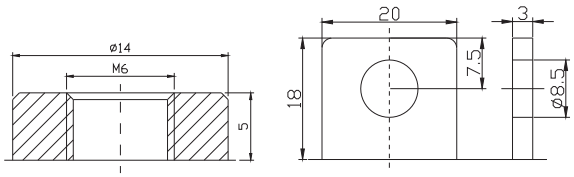
SPECIFICATIONS

Model		VT100-12
Nominal Voltage		12V
Rated capacity (20 hour rate)		100Ah
Dimensions	Length	330±2mm(12.99inch)
	Width	171±2mm(6.73inch)
	Height	214±2mm(8.43inch)
	Total Height	T5: 224±2mm (8.82inch)
		T9: 220±2mm (8.66inch)
Approx. Weight		28.0kg(61.6lbs)±4%

OUTER DIEMENSIONS (MM)



TERMINAL TYPE (MM)



CHARACTERISTICS

Capacity (25 °C)	20HR(10.2V)	100Ah
	5HR(10.5V)	86Ah
	1HR(9.60V)	59.5Ah
Terminal type		T5/T9/T11
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(77C± 5°C)
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(-4F~122°F)
Float charging voltage(25°C)		13.50 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.50 to 14.90V Temperature compensation: -30mV/°C
Maximum charging current		30A
Terminal material		Copper
Maximum discharge current		800A(5 sec.)
Designed floating life(20°C)		12 years

CONSTANT CURRENT DISCHARGE CHARACTERISTICS UNIT: A (25°C)

F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	333.00	200	157	96.0	59.5	35.4	24.7	20.3	17.5	12.0	10.0	5.04
9.90V	327.00	194	153	94.1	58.7	35.2	24.6	20.2	17.3,	12.0	10.0	5.03
10.2V	312.00	185	147	91.2	57.1	34.9	24.4	20.0	17.2	11.9	9.98	5.00
10.5V	300.00	178	143	89.0	56.0	34.4	24.3	19.9	17.2	11.8	9.95	5.00
10.8V	285.00	167	135	85.7	54.2	33.6	23.6	19.3	16.7	11.4	9.90	4.95

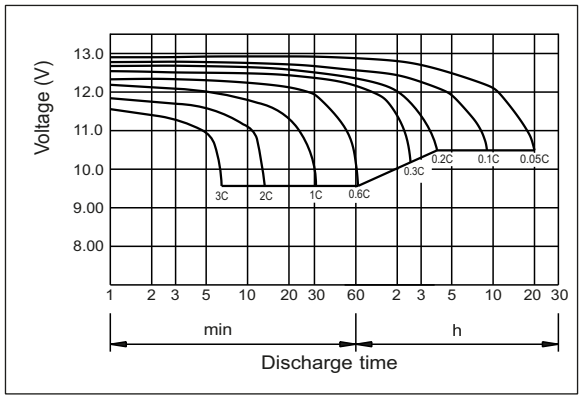
CONSTANT POWER DISCHARGE CHARACTERISTICS UNIT: W (25°C)

F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	3625	2155	1721	1077	679	410	291	239	207	142	120	60.0
9.90V	3555	2090	1680	1056	668	408	289	237	206	142	120	59.6
10.2V	3370	2004	1618	1023	652	404	287	236	204	141	119	59.4
10.5V	3225	1918	1563	998	638	399	285	234	203	140	118	59.1
10.8V	3070	1810	1480	962	619	388	276	227	197	135	118	58.7

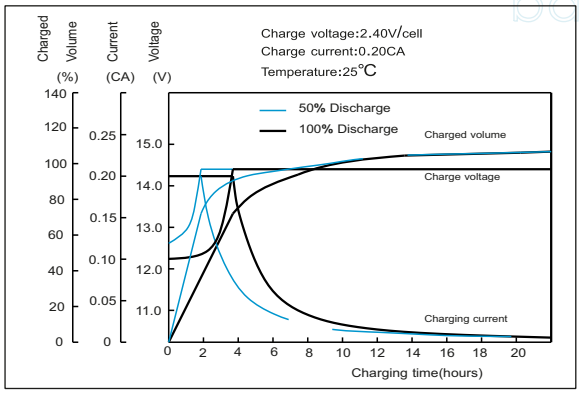
Note: The above characteristics data can be obtained within three charge/discharge cycles.

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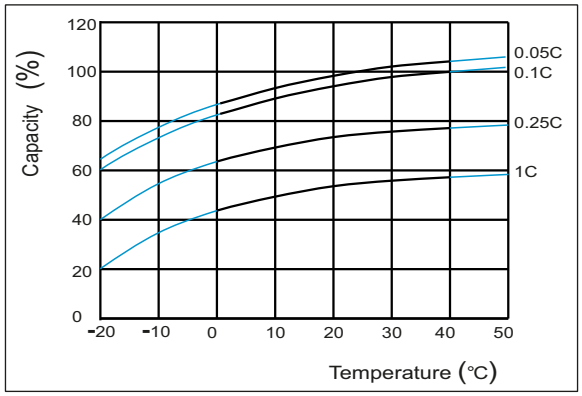
DISCHARGE CHARACTERISTICS (25°C)



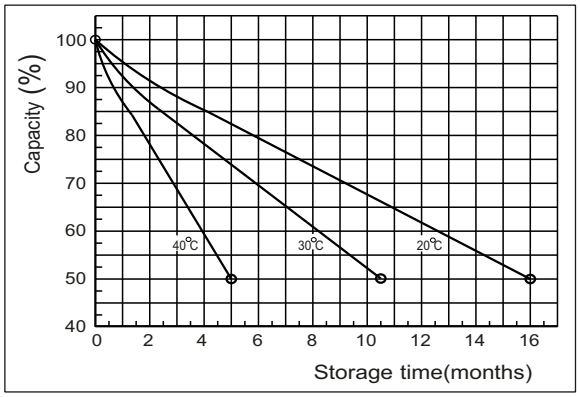
CHARGING CHARACTERISTICS (25°C)



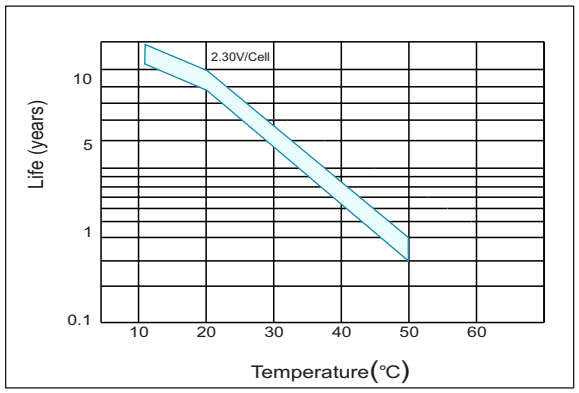
TEMPERATURE EFFECTS ON CAPACITY



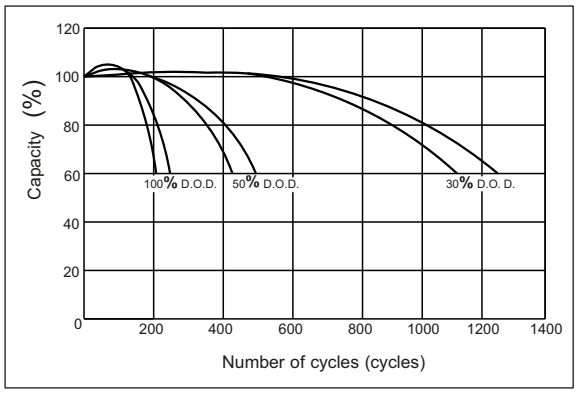
SELF-DISCHARGE CHARACTERISTICS



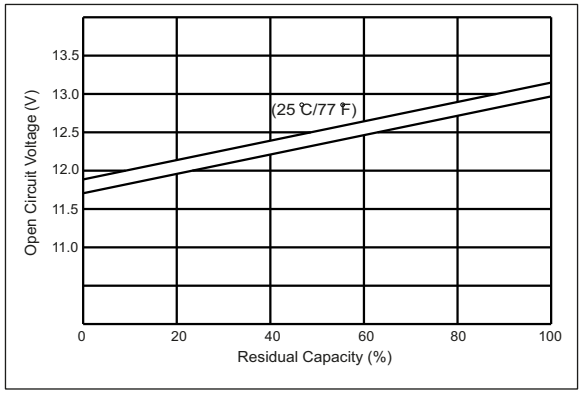
FLOATING LIFE ON TEMPERATURE



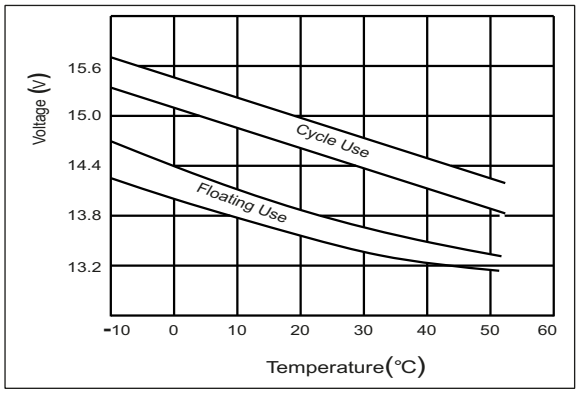
CYCLE LIFE ON D.O.D (25°C)



THE RELATIONSHIP FOR OCV AND CAPACITY (25°C)



THE RELATIONSHIP FOR CHARGING VOLTAGE AND TEMPERATURE



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