VGG12-100 (12V100AH C10 @25°C)

Features

§ Maintenance-free operation
§ Gel technology
§ ABS case, Flame Retardant V0 is available
§ Stable quality and high reliability
§ 12 years design life (at 25°C)

Application

§ Telecommunication system
§ Alarm and security system
§ Backup power
§ UPS
§ Emergency lighting
§ Auto control system
§ Electronic apparatus and equipment
§ Communication power supply
§ DC power supply

Specification

Nominal Voltage	12V (6 cells)	Operating Temp.Range	Discharge: -15-50°C (5-122°F)
Nominal Capacity	105AH (20hr, 1.80V/cell, 25°C/77°F)		Charge:0-40°C (32-104°F)
	100AH (10hr, 1.80V/cell, 25°C/77°F)		Storage: -15-40°C (5-104°F)
	85AH (5hr, 1.75V/cell, 25°C/77°F)	Nominal Operating Temp.Range	25 ± 3°C (77 ± 5°F)
	60AH (1hr, 1.60V/cell, 25°C/77°F)	Cycle Use	14.4~14.8V (25°C/77°F) Temp.Coefficient -30mV/°C
Dimension	Length 394 ± 2mm		Initial Charging Current Less than 30A
	Width 110 ± 2mm	Standby Use	13.5~13.8V (25°C/77°F) Temp.Coefficient -20mV/°C
	Container Height 286 ± 2mm		No limit on Initial Charging Current
	Total Height(with Terminal) 286 ± 2mm	Capacity affected by Temperature	40°C (104°F) 103%
Approx Weight	Approx 32.5Kg		25°C (77°F) 100%
Terminal	T3		0°C (32°F) 86%
Container Material	ABS	Self Discharge	VGG series batteries may be stored for up to 6 months
Max. Discharge Current	1000A (5S)		At 25°C (77°F) and then a freshening charge is required.
Internal Resistance	Approx 5.0mΩ		For higher temperatures the time interval will be shorter.

Constant Current Discharge (Amperes at 25°C/77°F)

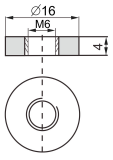
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	-	176.0	145.7	89.5	69.2	56.9	33.2	24.9	17.2	10.3	5.40
1.75V/cell	-	193.3	158.0	93.2	71.8	58.7	34.2	25.6	17.6	10.5	5.48
1.70V/cell	-	206.5	170.7	96.4	74.1	60.4	35.1	26.1	17.9	10.6	5.54
1.65V/cell	-	220.2	180.4	101.6	77.2	62.8	36.1	26.9	18.2	10.7	5.62
1.60V/cell	-	235.3	188.6	106.2	80.0	64.9	37.1	27.3	18.6	10.8	5.67

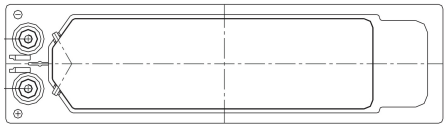
Constant Power Discharge (Watts per cell at 25°C/77°F)

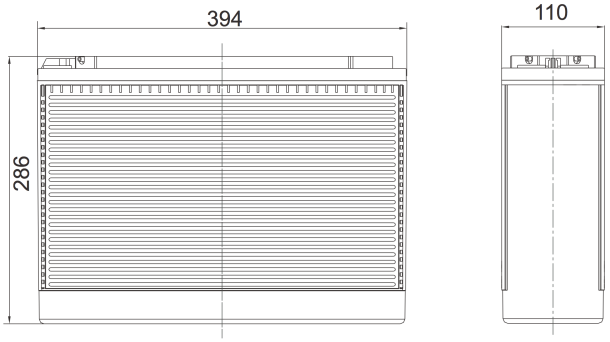
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	-	328.9	280.5	169.1	132.4	110.8	64.0	48.4	33.9	20.4	10.65
1.75V/cell	-	356.0	294.6	175.0	135.9	113.3	65.7	49.4	34.4	20.7	10.81
1.70V/cell	-	374.7	310.0	180.2	140.1	114.9	67.3	50.4	34.8	20.8	10.92
1.65V/cell	-	390.8	322.4	189.8	144.6	118.7	68.7	51.3	35.6	21.0	11.02
1.60V/cell	-	412.1	335.2	195.6	147.2	122.4	70.1	52.3	36.1	21.1	11.13

Note: The above characteristics data are average values obtained within three charge/discharge cycles, not the minimum values.

Dimension







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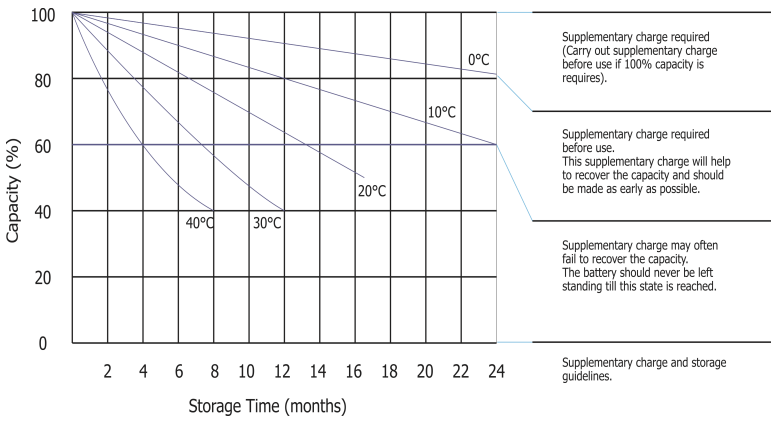
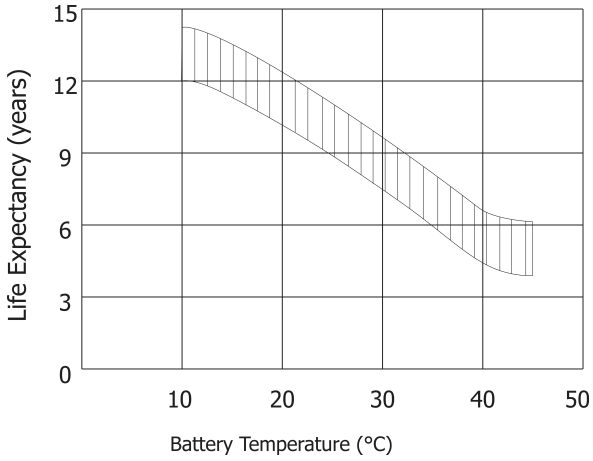
Storage Characteristics

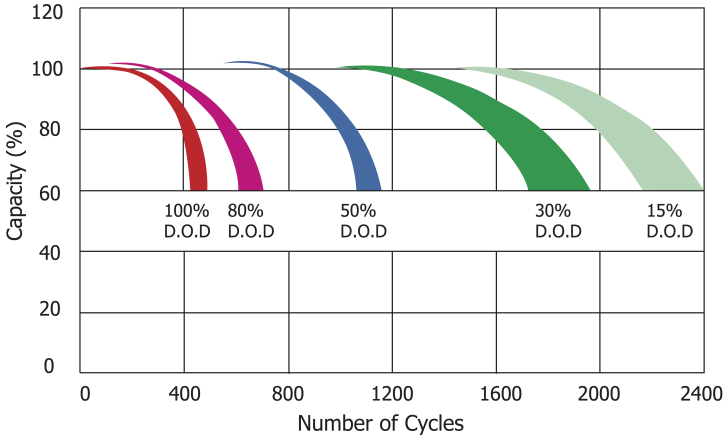


Effect Of Temperature On Float Life

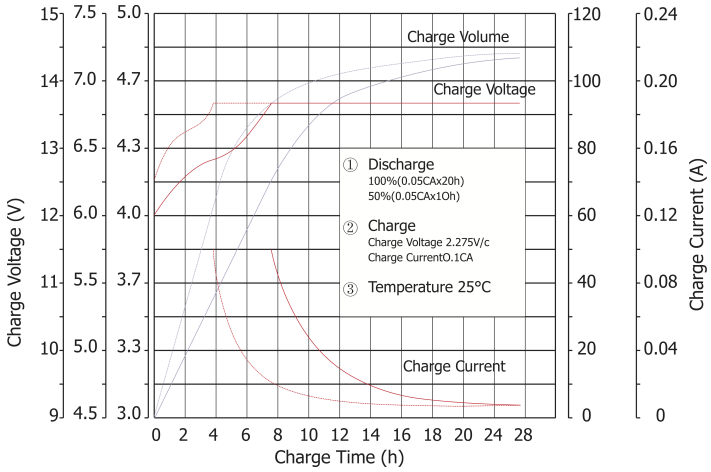


Cycle Life With Depth Of Discharge (D.O.D.)

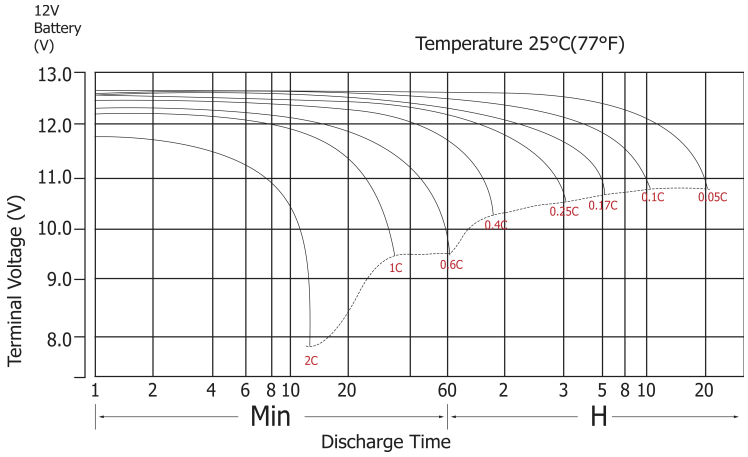
Testing condition
Discharging: current 0.17C (FV 1.7V/cell);
Charging: current 0.25C max, voltage 2.45V/cell;
Charging volume: 125% of discharged capacity



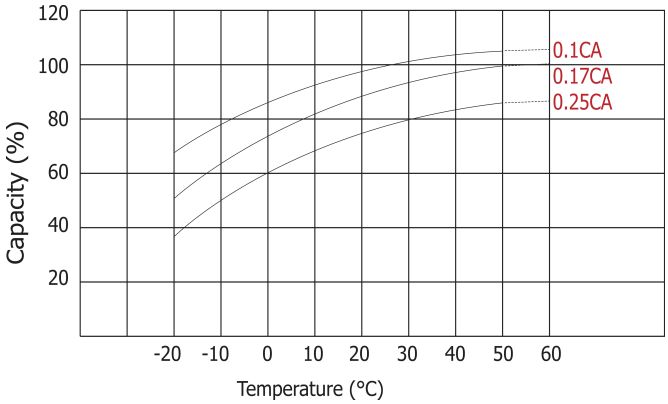
Charge Characteristics Curve For Standby Use



Discharge Characteristics Curve



Temperature Effects With Capacity



Certificates

MH20942

IEC

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