



Specification

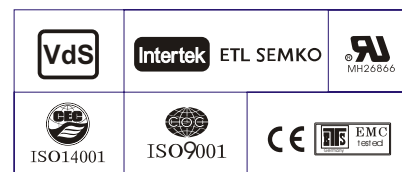
Nominal Voltage	Nominal	12V
Capacity	(20HR)	100.0AH
Dimensions	Length	330 ± 3mm (12.99 inches)
	Width	173 ± 2mm (6.81 inches)
	Container Height	212 ± 3mm (8.35 inches)
	Total Height (with Terminal)	220 ± 3mm (8.66 inches)
Approx Weight		Approx 27.7kg (± % 3)
Design Life		10 years for standby use
Container Material		ABS
Rated Capacity	100.0 AH/5.00A	(20hr, 1.80V/cell, 25°C/77°F)
	90.0AH/9.0A	(10hr, 1.80V/cell, 25°C/77°F)
	77.5 AH/15.5A	(5hr, 1.75V/cell, 25°C/77°F)
	70.2AH/23.4A	(3hr, 1.75V/cell, 25°C/77°F)
	54.9 AH/54.9A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current		1080A (5s)
Internal Resistance		Approx 5.0mΩ
Operating Temp. Range	Discharge	: -15 ~ 50°C (5 ~ 122°F)
	Charge	: 0 ~ 40°C (32 ~ 104°F)
	Storage	: -15 ~ 40°C (5 ~ 104°F)
Nominal Operating Temp. Range		25 ± 3°C (77 ± 5°F)
Cycle Use	Initial Charging Current less than 27.0A. Voltage	
	14.4V ~ 15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	13.5V ~ 13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	EA series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



VRLA AGM BATTERY

Applications

- ♦ All purpose
- ♦ Uninterruptable Power Supply (UPS)
- ♦ Electric Power System (EPS)
- ♦ Emergency backup power supply
- ♦ Emergency light
- ♦ Railway signal
- ♦ Aircraft signal
- ♦ Alarm and security system
- ♦ Electronic apparatus and equipment
- ♦ Communication power supply
- ♦ DC power supply
- ♦ Auto control system



Constant Current Discharge (Amperes)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	154.0	121.1	103.0	86.1	68.5	51.8	42.4	27.0	21.4	17.5	14.1	12.2	9.95	8.50	4.64
1.80V/cell	206.8	154.7	124.4	101.8	80.8	60.3	47.5	29.5	23.0	18.6	15.1	13.1	10.5	9.00	5.00
1.75V/cell	233.1	170.0	135.9	109.5	83.9	62.5	49.7	30.6	23.4	19.1	15.5	13.5	10.7	9.09	5.04
1.70V/cell	256.7	185.3	145.1	115.1	87.3	65.0	51.3	31.8	24.1	19.6	15.9	13.8	10.9	9.18	5.08
1.65V/cell	283.1	200.0	154.3	122.3	92.1	66.7	53.0	32.7	25.1	20.2	16.3	14.1	11.1	9.37	5.11
1.60V/cell	312.2	217.1	165.0	130.3	97.2	69.5	54.9	33.8	25.9	20.9	16.9	14.4	11.2	9.47	5.12

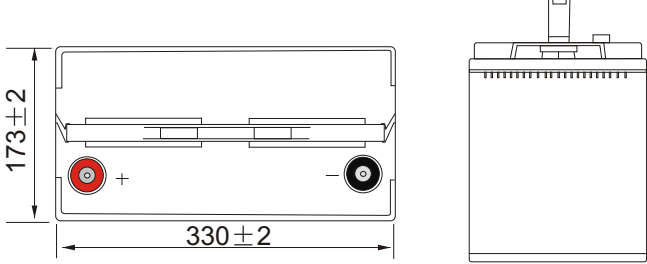
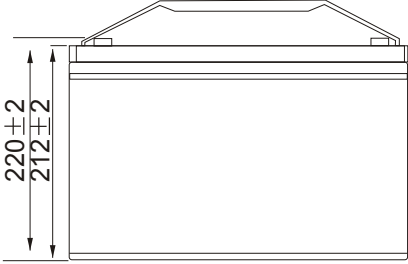
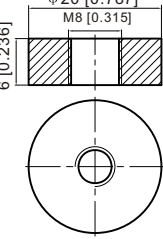
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	281.6	223.7	192.2	162.4	130.5	99.6	81.8	52.5	41.6	34.1	27.6	24.1	19.6	16.8	9.18
1.80V/cell	374.0	282.5	229.1	189.1	151.6	114.9	91.2	56.9	44.6	36.2	29.5	25.7	20.8	17.8	9.26
1.75V/cell	412.7	305.4	247.1	201.5	156.1	118.1	95.0	58.8	45.2	36.9	30.2	26.4	21.1	17.9	9.33
1.70V/cell	441.9	325.3	260.2	210.2	161.6	122.4	97.6	61.0	46.4	37.8	30.9	26.9	21.3	18.1	9.51
1.65V/cell	480.4	347.9	274.5	221.6	169.1	124.3	100.2	62.3	48.1	39.0	31.6	27.4	21.6	18.4	9.62
1.60V/cell	517.6	369.1	288.7	233.5	177.2	128.9	103.2	64.1	49.4	40.1	32.5	27.9	21.8	18.6	9.66

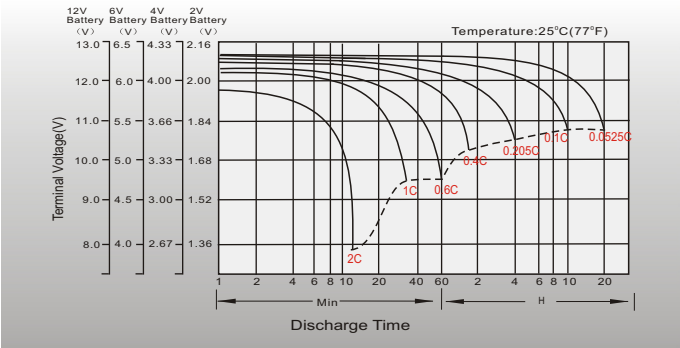


T11 Terminal

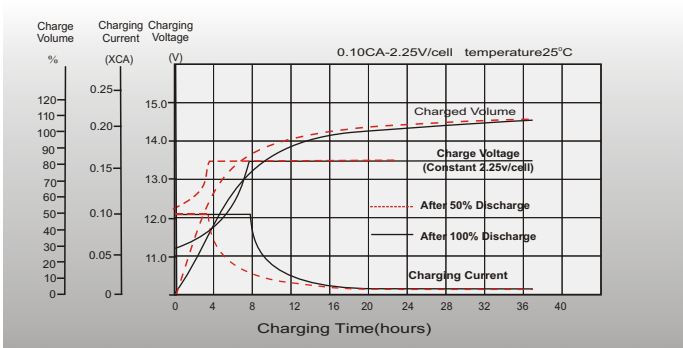
Unit: mm [inches]



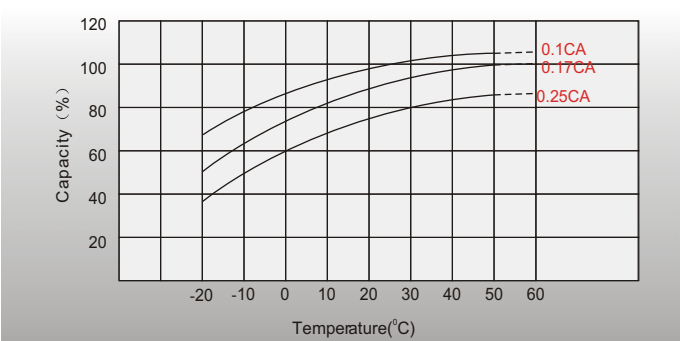
Discharge Characteristics



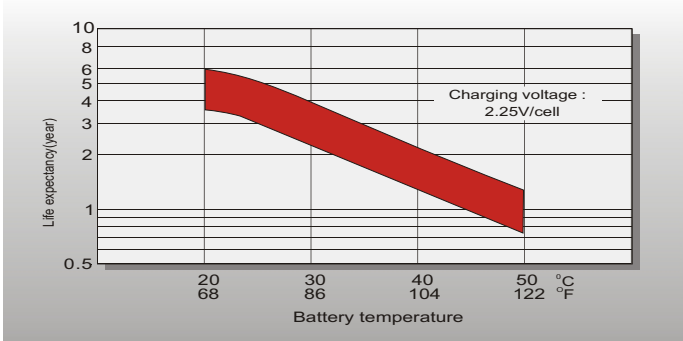
Float Charging Characteristics



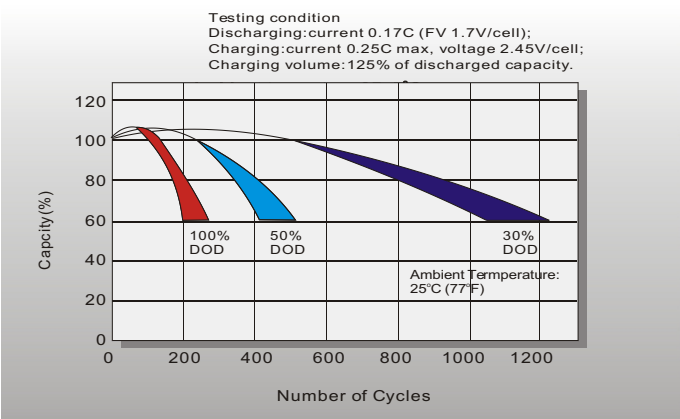
Temperature Effects in Relation to Battery Capacity



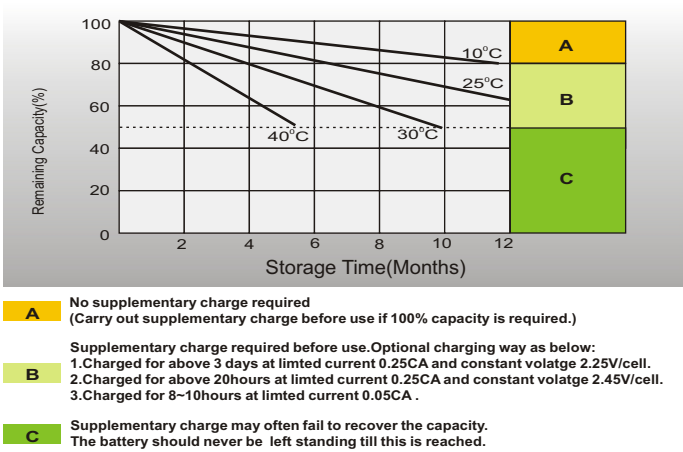
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



Sales Office

Specifications subject to change without notice.

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