



VTA12-65 (12V 65AH/10HR) SEALED LEAD ACID Battery

The Valiant VTA series AGM batteries are designed for float and cycling applications. The VTA series offers a 30% higher cycle life than standard AGM and a 10-year float life that is achieved through a slightly different active paste material and a slightly stronger electrolyte. They are perfectly suited for UPS/Telecom, remote site, and emergency power systems.

**12V
65Ah**

**AGM
Technology**

**VRLA
Battery**



Applications

- Telecom, controls, remote site
- UPS and inverter systems
- Solar and wind systems
- Emergency backup power systems
- RV and marine

General Features

- 30% more cycle life
- Deep discharge recovery, 700 cycles @ 50% DOD
- Thick plate design with high tin/low calcium alloy
- 10 years service life in floating applications
- High power density

Dimensions & Weight

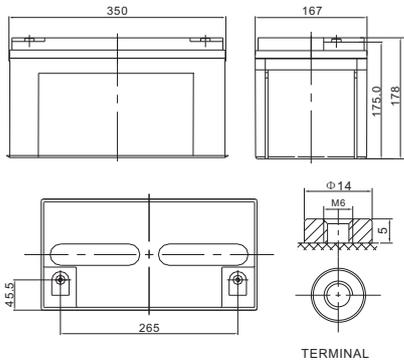
Length(mm/inch)	350/13.78
Width(mm/inch)	167/6.58
Height(mm/inch)	178/7.01
Total Height(mm/inch)	178/7.01
Weight(kg/lbs)(±3%)	20.5/45.19

Technical Specifications

Nominal Voltage		12V (6 cells per unit)
Design Floating Life @ 25°C		10 Years
Nominal Capacity @ 25°C	10 hour rate@6.50A,10.8V	65Ah
Capacity @ 25°C	20 hour rate (3.61A, 10.8V)	72.2Ah
	5 hour rate (11.9A, 10.5V)	59.5Ah
	1 hour rate (43.2A,9.6V)	43.2Ah
Internal Resistance	Full Charged Battery@ 25°C	≤7.0mΩ
Ambient Temperature	Discharge	-15°C~45°C
	Charge	-15°C~45°C
	Storage	-15°C~45°C
Max.Discharge Current		@ 25°C 390A (5s)
Capacity affected by Temperature (10 hour)	40°C	105%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-Discharge@25°C per Month		3%
Charge (Constant Voltage) @ 25°C	Standby Use	Initial Charging Current Less than 16.25A Voltage 13.6-13.8V
	Cycle Use	Initial Charging Current Less than 16.25A Voltage 14.4-14.9V



COMPLIED STANDARDS
IEC 60896-21/22 **JIS C8704**
YD/T799 **BS6290 part4**
GB/T 19638 **CE**



Battery Discharge Table

Discharge Constant Current per Cell (Amperes at 25° C)

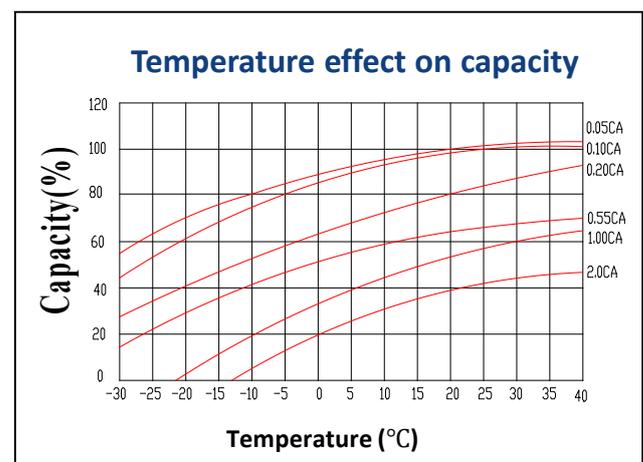
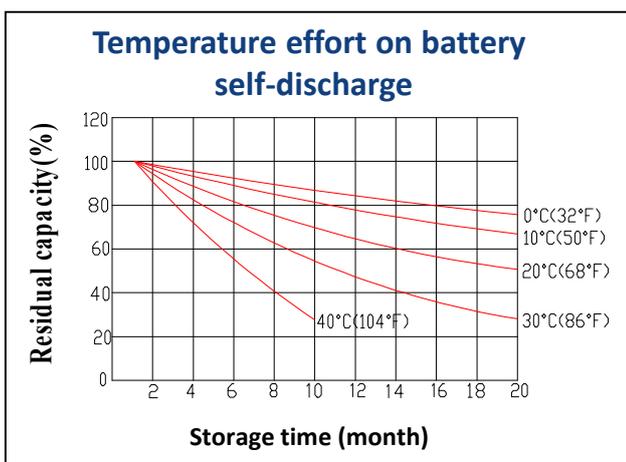
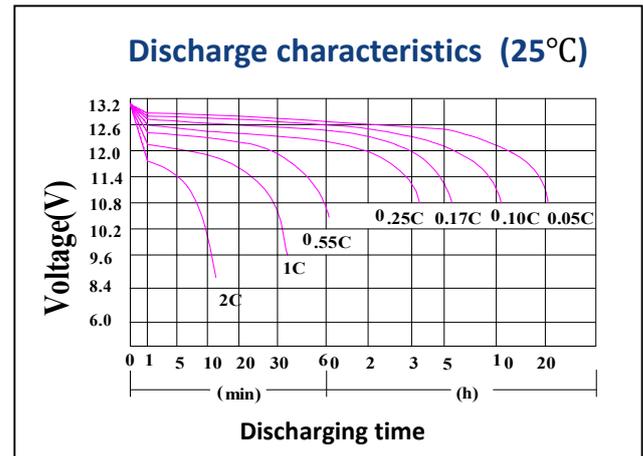
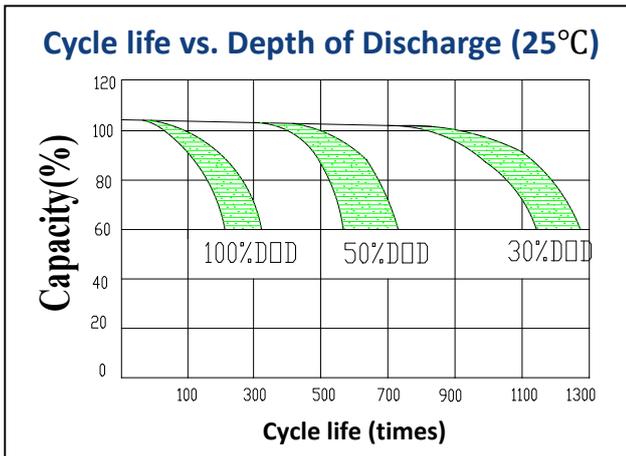
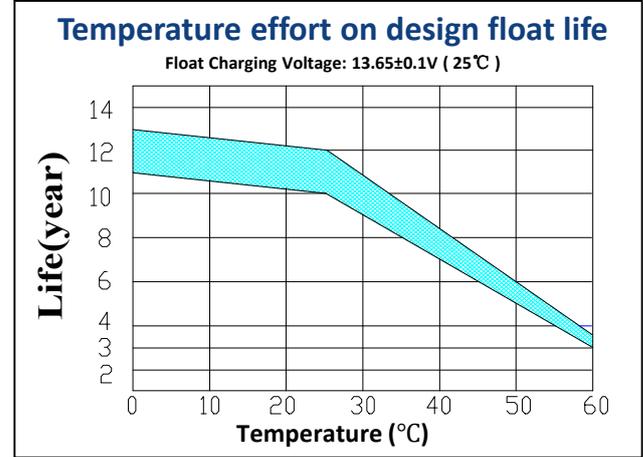
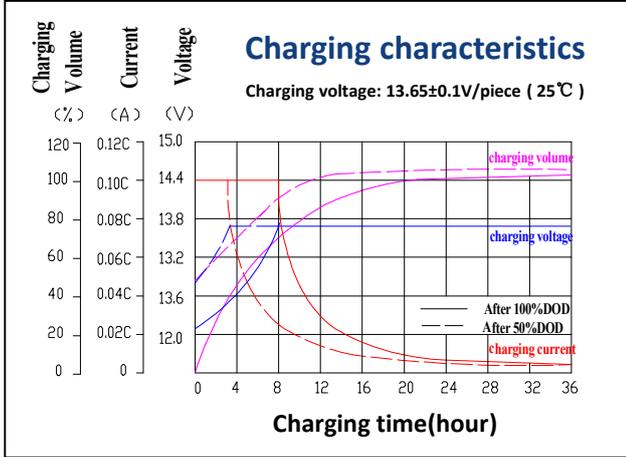
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	109.7	68.3	49	43.2	26.4	19.3	12.4	7.6	6.76	3.75
1.65V	105.2	66.5	47.7	42.1	25.9	18.9	12.2	7.5	6.70	3.72
1.70V	100.6	64.6	46.4	40.9	25.4	18.6	12.1	7.4	6.63	3.68
1.75V	96	62.8	45.1	39.8	24.8	18.1	11.9	7.4	6.57	3.64
1.80V	91.5	61	43.7	38.6	24.2	17.7	11.7	7.3	6.50	3.61

Discharge Constant Power per Cell (Watts at 25° C)

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	204.7	127.4	91.4	80.6	49.2	35.9	23.1	14.1	12.6	7.0
1.65V	196.1	123.9	88.9	78.5	48.3	35.3	22.8	14.0	12.5	6.9
1.70V	187.6	120.5	86.5	76.3	47.4	34.6	22.5	13.8	12.4	6.9
1.75V	179.1	117.1	84	74.2	46.2	33.8	22.1	13.7	12.2	6.8
1.80V	170.6	113.7	81.6	72	45.1	33	21.8	13.6	12.1	6.7



Performance Characteristics



Battery Construction

Component	Positive Plate	Negative Plate	Container & Cover	Safety Valve	Terminal	Separator	Electrolyte	Pillar Seal
Features	Thick high Sn low Ca grid with special paste	Balanced Pb-Ca grid for improved recombination efficiency	ABS (UL94-VO optional)	Flame Si-Rubber and aging resistant	M6	Advanced AGM separator for high pressure cell design	Dilute high purity sulfuric acid	Two layers epoxy resin seal