# VALIANT: Providing Constant, Safe and Reliable Power



# **VRLA AGM 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**







## GENERAL FEATURES

- 30% more cycle life
- Deep discharge recovery, 700 cycles @ 50% DOD
- Thick plate design with high tin/low calcium alloy

196/7.72

130/5.12

167/6.58

10/22.1

155/6.11

- 10-year service life in float applications
- High power density

**DIMENSIONS & WEIGHT** 

Length(mm/inch)

Width(mm/inch)

Height(mm/inch)

Total Height(mm/inch)

Weight(kg/lbs)( $\pm$ 3%)

### **APPLICATIONS**

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

## **COMPLIED STANDARDS**







# RV and marine

# TECHNICAL SPECIFICATIONS

	12V(6 cells per unit)					
	25℃	8 Years				
Nominal Capa	acity @25	°C(10 hour ra	te@3.30A,10.8V)	33Ah		
		20hour	rate (1.75A,10.8V)	35.0Ah		
Capacity @25	$^{\circ}$ C	5 hour rate (6.00A,10.5V)		30.0Ah		
		1 hou	r rate (20.0A,9.6V)	20.0Ah		
Internal Resista	nce	Full Charge	d Battery@25℃	≤11.0mΩ		
			Discharge	-15℃~45℃		
Ambient Temper	Ambient Temperature		Charge	-15°C~45°C		
			Storage	-15℃~45℃		
N	lax.Disch	025°C	198A (5s)			
			40°C	105%		
1 2	Capacity affected by		25℃	100%		
Temperature (10 hour)			0℃	85%		
			-15℃	65%		
Sel	3%					
	C4	41 T I	Initial Charging Curi	ent Less than 8.25A		
Charge (Constant	Stan	dby Use	Voltage 13.6-13.8V			
Voltage) @25℃	Cycle Use		Initial Charging Current Less than 8.25A			

nt	Standby Use	Initial Charging Current Less than 8.25A Voltage 13.6-13.8V
C	Cycle Use	Initial Charging Current Less than 8.25A Voltage 14.4-14.9V

## BATTERY DISCHARGE TABEL

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

			•		-					
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	55.7	31.5	22.6	20.0	13.4	9.8	6.3	4.1	3.7	1.82
1.65V	53.4	30.6	22.0	19.4	13.1	9.6	6.2	4.0	3.6	1.80
1.70V	51.1	29.8	21.4	18.9	12.9	9.4	6.1	3.9	3.5	1.78
1.75V	48.8	29.0	20.8	18.4	12.6	9.2	6.0	3.8	3.4	1.77
1.80V	46.4	28.1	20.2	17.8	12.3	9.0	5.9	3.7	3.3	1.75

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

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	103.9	58.7	42.1	37.2	25.0	18.2	11.7	7.3	6.6	3.7
1.65V	99.6	57.2	41.0	36.2	24.5	17.9	11.6	7.2	6.5	3.6
1.70V	95.3	55.6	39.9	35.2	24.0	17.6	11.4	7.1	6.4	3.5
1.75V	90.9	54.0	38.7	34.2	23.5	17.2	11.2	7.0	6.3	3.4
1.80V	86.6	52.4	37.6	33.2	22.9	16.7	11.1	6.9	6.2	3.3

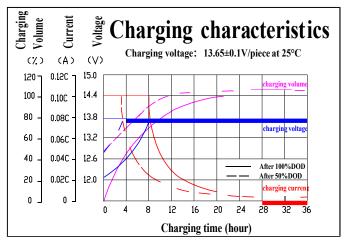
Note: The above data is based on average values and can typically be achieved within 3 charge/discharge cycles. Battery designs and specifications are subject to change without notice. Contact Valiant for the latest information.

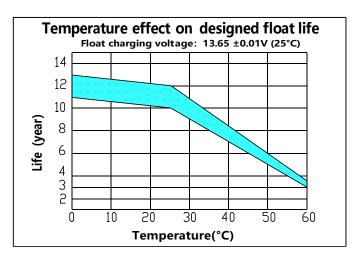


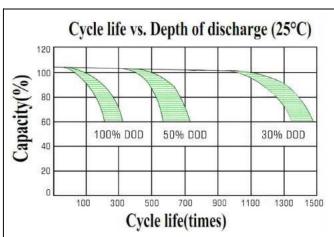
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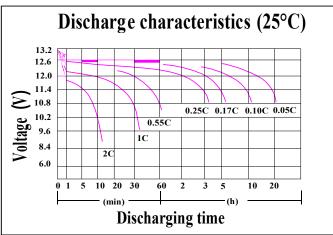
# **VTA12-35**

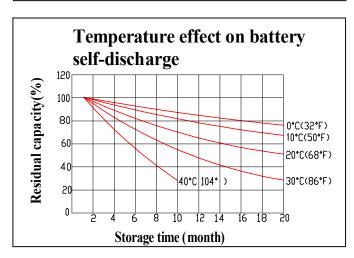
## PERFORMANCE CHARACTERISTICS

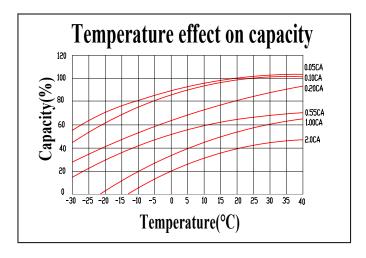












## **BATTERY CONSTRUCTION**

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	Fire resistance ABS (UL94-V0)	Flame Si-Rubber and aging resistance	Female Copper Insert M6	Advanced AGM separator for high pressure cell design	Dilute high purity sulfuric acid	Two layers epoxy resin seal

