VALIANT: Providing Constant, Safe and Reliable Power



VRLA AGM SEALED LEAD ACID Battery

VTA12-50

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 Voltage





VRLA



COMPLIED STANDARDS



GENERAL FEATURES

- 30% more cycle life
- Deep discharge recovery, 700 cycles @ 50% DOD
- Thisk plate design with high tip/less aclaims allo
- Thick plate design with high tin/low calcium alloy
- 10-year service life in float applications
- High power density

APPLICATIONS

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

DIMENSIONS & WEIGHT

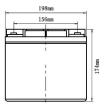
 Length(mm/inch)
 198/7.80

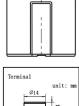
 Width(mm/inch)
 166/6.54

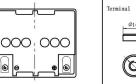
 Height(mm/inch)
 174/6.85

 Total Height(mm/inch)
 174/6.85

 Weight(kg/lbs)(±3%)
 12.9/28.5









TECHNICAL SPECIFICATIONS

Nor	12V(6 cells per unit)				
Design Fl	8 Years				
Nominal Capacity @2:	5°C(10 hour ra	ate@4.50A,10.8V)	45Ah		
	20hour	rate (2.50A,10.8V)	50Ah		
Capacity @25℃	5 hour	r rate (8.3A,10.5V)	41.5Ah		
	1 hour	r rate (29.9A,9.6V)	29.9Ah		
Internal Resistance	Full Charge	d Battery@25℃	≤9.0mΩ		
		Discharge	-15℃~45℃		
Ambient Temperature		Charge	-15℃~45℃		
		Storage	-15°C~45°C		
Max.Disch	arge Current@	025°C	270A (5s)		
C '4 CC 4 11	40℃		105%		
Capacity affected by	25℃		100%		
Temperature (10 hour)		0° C	85%		
(10 hour)		-15℃	65%		
Self-Dischar	3%				
	ent Less than 11.25A				

Charge (Constant	Standby Use	Initial Charging Current Less than 11.25A Voltage 13.6-13.8V				
Voltage) @25℃	Cycle Use	Initial Charging Current Less than 11.25A 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	76.0	47.3	34.0	29.9	18.2	13.4	8.6	5.3	4.68	2.59
1.65V	72.9	46.0	33.0	29.1	17.9	13.1	8.5	5.1	4.64	2.57
1.70V	69.6	44.8	32.1	28.3	17.6	12.9	8.4	5.1	4.59	2.55
1.75V	66.4	43.5	31.2	27.5	17.1	12.5	8.3	5.1	4.54	2.52
1.80V	63.3	42.2	30.3	26.7	16.7	12.2	8.1	5.0	4.50	2.50

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

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	141.8	88.2	63.2	55.8	34.1	24.9	16.0	9.8	8.68	4.82
1.65V	135.8	85.8	61.6	54.3	33.4	24.4	15.8	9.6	8.68	4.82
1.70V	129.9	83.5	59.9	52.8	32.8	24.0	15.5	9.5	8.57	4.71
1.75V	124.0	81.1	58.2	51.3	32.0	23.4	15.3	9.5	8.46	4.71
1.80V	118.1	78.8	56.5	49.8	31.2	22.8	15.1	9.4	8.36	4.61

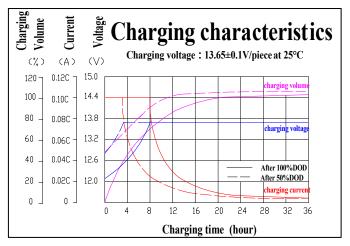
Note: The above data is based on average values and can typically be achieved within 3 charge/discharge cycles. Battery designs and specifications are subject to change without notice. Contact Valiant for the latest information.

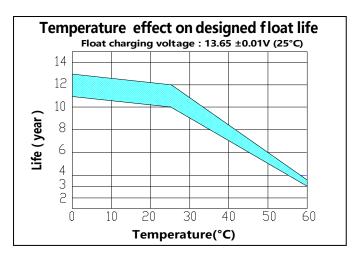


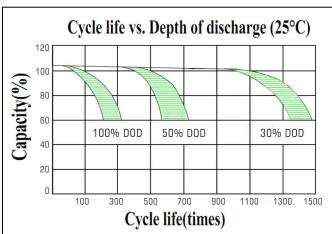
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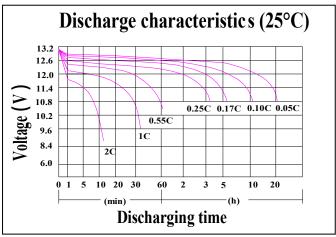
VTA12-50

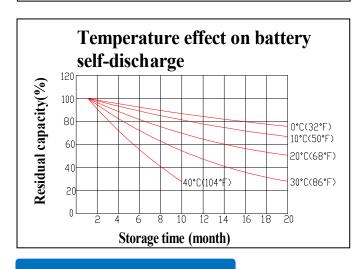
PERFORMANCE CHARACTERISTICS

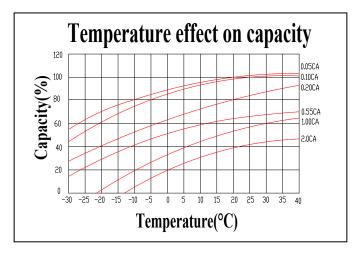












BATTERY CONSTRUCTION

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

