VALIANT: Providing Constant, Safe and Reliable Power



VRLA AGM SEALED LEAD ACID Battery

VTA12-20

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

20Ah Capacity







GENERAL FEATURES

- 30% more cycle life
 Deep discharge recovery, 700 cycles @ 50%
- DOD
- 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

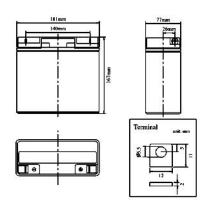
COMPLIED STANDARDS

Voltage 14.4-14.9V



DIMENSIONS & WEIGHT

Length(mm/inch)	181/7.13
Width(mm/inch)	77/3.03
Height(mm/inch)	167/6.57
Total Height(mm/inch)	167/6.57
Weight(kg/lbs)(±3%)	6.1/13.5



TECHNICAL SPECIFICATIONS

	12V(6 cells per unit)					
1	8 Years					
Nominal Capa	acity @25	°C(20 hour ra	ite@1.00A,10.8V)	20Ah		
		10hour	rate (1.90A,10.8V)	19Ah		
Capacity @25	$^{\circ}$ C	5 hour rate (3.56A,10.5V)		17.8Ah		
		1 hou	rate (13.2A,9.6V)	13.2Ah		
Internal Resista	nce	Full Charge	d Battery@25℃	≤11.0mΩ		
			Discharge	-15℃~45℃		
Ambient Temperature			Charge	-15°C~45°C		
			Storage	-15℃~45℃		
N	Max.Discharge Current@25°C					
G : CC .	1.1		40°C	105%		
Capacity affecte	•		25℃	100%		
	Temperature		$0^{\circ}\mathbb{C}$	85%		
(10 hour)			-15℃	65%		
Sel	f-Dischar	ge@25°C per	Month	3%		
	C+	Initial Charging Cur		rent Less than 6.0A		
Charge (Constant	Standby Use		Voltage 13	3.6-13.8V		
Voltage) @25℃	Cyala Haa		Initial Charging Cur	rent Less than 6.0A		

BATTERY DISCHARGE TABEL

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

Cycle Use

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	33.11	22.00	15.40	13.20	8.25	5.65	3.77	2.53	2.09	1.10
1.65V	32.50	21.60	15.12	12.96	8.10	5.55	3.70	2.49	2.06	1.08
1.70V	31.90	21.20	14.84	12.72	7.95	5.45	3.63	2.44	2.02	1.06
1.75V	31.30	20.80	14.56	12.48	7.80	5.35	3.56	2.40	1.98	1.04
1.80V	30.10	20.00	14.00	12.00	7.50	5.14	3.43	2.30	1.90	1.00

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

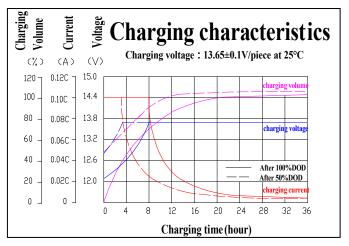
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	63.73	42.35	29.65	25.41	15.88	10.88	7.26	4.88	4.03	2.12
1.65V	62.57	41.58	29.11	24.95	15.59	10.69	7.12	4.79	3.96	2.08
1.70V	61.41	40.81	28.57	24.49	15.30	10.49	6.99	4.70	3.88	2.04
1.75V	60.25	40.04	28.03	24.02	15.02	10.29	6.86	4.61	3.81	2.00
1.80V	57.94	38.50	26.95	23.10	14.44	9.89	6.60	4.43	3.66	1.93

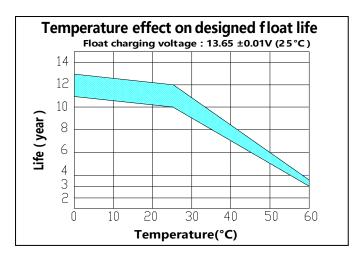


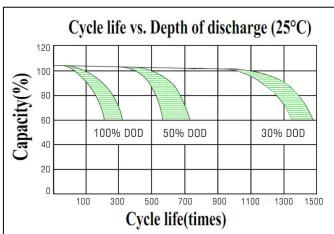
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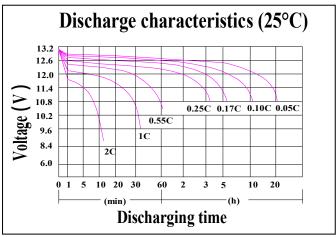
VTA12-20

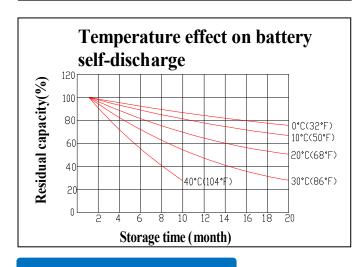
PERFORMANCE CHARACTERISTICS

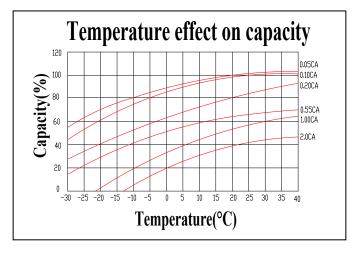












BATTERY CONSTRUCTION

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

