VALIANT: Providing Constant, Safe and Reliable Power

SEALED LEAD ACID AGM Battery

VALIANT Small SLA VTA series Sealed free maintenance lead acid batteries are designed with AGM technology, high performance pure lead plates and sulfuric acid electrolyte to gain extra power output for common power backup system applications widely used in the fields of UPS, Security and Emergency lighting system. They are sealed and free maintenance whole life, valve regulated type standby AGM battery, also named by VRLA battery, SLA battery, and SMF battery.

GENERAL FEATURES

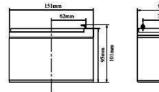
- Non-spillable construction design
- Long life span 5-8 years in floating condition . High quality AGM separator: extend cycle life and prevents micro short circuit
- 99.99% pure lead plates ensure high quality and high reliability.
- . Flame-resistance ABS material: increases the strength of battery container.

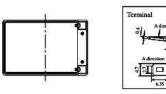
\triangleright UPS

- \succ **Emergency Lighting**
- ≻ **Electric Scooter**
- Mobility $\mathbf{>}$

DIMENSIONS & WEIGHT

Length(mm/inch)	152/5.98
Width(mm/inch)	99/3.90
Height(mm/inch)	96/3.78
Total Height(mm/inch)	102/4.02
Weight(kg/lbs)($\pm 3\%$)	3.5/7.72





BATTERY DISCHARGE TABEL

Nominal Capa	$my (w_{2})$	C(20 from 12)	in (40.00A, 10.8 V)	12A11	
		10hour	rate (1.14A,10.8V)	11.4Ah	
Capacity @25	°C	5 hour	rate (2.14A,10.5V)	10.7Ah	
		1 hou	r rate (8.0A,9.6V)	8.0Ah	
Internal Resista	nce	Full Charge	d Battery@25°C	$\leq 14.0 \mathrm{m}\Omega$	
			Discharge	-15℃~45℃	
Ambient Temper	ature		Charge	-15℃~45℃	
			Storage	-15℃~45℃	
Ν	[ax.Discha	arge Current@	025°С	72A (5s)	
Capacity affected by Temperature (10 hour)			40°C	105%	
			25℃	100%	
			0°C	85%	
			-15℃	65%	
Sel	f-Dischar	ge@25°C per	Month	3%	
	C,	Initial Charging Cur		rrent Less than 3.6A	
Charge (Constant	Stan	dby Use	Voltage 13	3.6-13.8V	
Voltage) @25℃	C	ala Uza	Initial Charging Cur	rent Less than 3.6A	
	Cycle Use		Voltage 14.4-14.9V		

Nominal Voltage

Design Floating Life @25°C

Nominal Capacity $@25^{\circ}C(20 \text{ hour rate}@0.60A.10.8V)$

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

					-					
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	24.2	13.78	9.81	8.00	4.95	3.39	2.26	1.52	1.26	0.66
1.65V	23.5	13.41	9.55	7.73	4.86	3.33	2.22	1.49	1.23	0.65
1.70V	22.9	13.04	9.29	7.45	4.77	3.27	2.18	1.46	1.21	0.64
1.75V	22.2	12.67	9.02	7.18	4.68	3.21	2.14	1.44	1.19	0.62
1.80V	21.6	12.30	8.76	6.90	4.50	3.08	2.06	1.38	1.14	0.60

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

				-			,	-		-
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	46.6	26.52	18.89	15.41	9.53	6.53	4.35	2.93	2.42	1.27
1.65V	45.3	25.81	18.38	14.88	9.36	6.41	4.27	2.87	2.37	1.25
1.70V	44.1	25.10	17.87	14.35	9.18	6.29	4.20	2.82	2.33	1.22
1.75V	42.8	24.39	17.37	13.81	9.01	6.17	4.12	2.77	2.29	1.20
1.80V	41.6	23.68	16.86	13.28	8.66	5.94	3.96	2.66	2.20	1.16

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.

APPLICATIONS

TECHNICAL SPECIFICATIONS



COMPLIED STANDARDS



12V(6 cells per unit)

5 Years

12Ah

VTA12-12

AGM

12V

12Ah

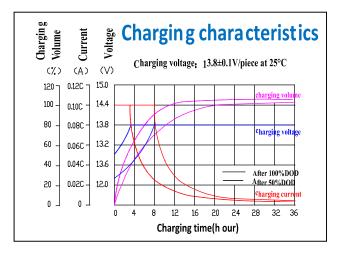
Valiant

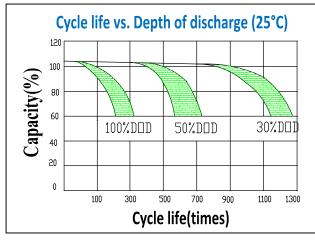
VRLA

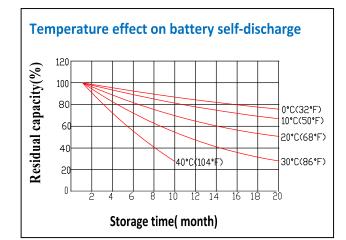
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PERFORMANCE CHARACTERISTICS





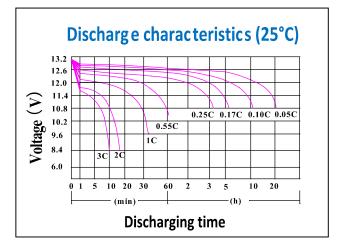


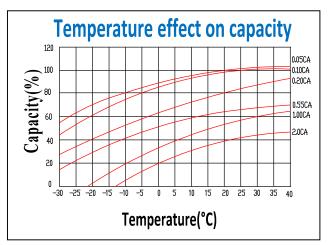
BATTERY CONSTRUCTION

Ter	nperature effect on design float life Float charging voltage: 6.85 ±0.01V (25°C)
7,0	
6,0	
5.0	
1 Life (year)	
3,0	
Life	
0,5	
	Temperature(°C)

Valient

VTA12-12





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-V0)	Flame Si-Rubber and aging resistance	F1/F2	Advanced AGM separator for high pressure cell design	Dilute high purity sulfuric acid	Two layers epoxy resin seal

www.valiantbattery.com