VALIANT: Providing Constant, Safe and Reliable Power

VRLA AGM SEALED LEAD ACID Battery

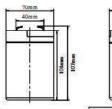
VALIANT Small SLA VTA series Sealed free maintenance lead acid batteries are designed with AGM technology, high performance pure lead plates and sulfuric acid electrolyte to gain extra power output for common power backup system applications widely used in the fields of UPS, Security and Emergency lighting 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.

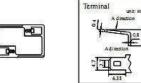
GENERAL FEATURES

- Non-spillable construction design
- Long life span 5-8 years in floating condition
 High quality ACM separator: extend cycle life
- 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.

DIMENSIONS & WEIGHT

70/2.76
40/1.57
101/3.97
107/4.21
0.8/1.76





BATTERY DISCHARGE TABEL

APPLICATIONS

- > UPS
- Emergency Lighting
- Electric Scooter
- > Mobility

TECHNICAL SPECIFICATIONS

6V

Voltag



COMPLIED STANDARDS



Nominal Voltage 6V(3 cells per unit)								
]	5 Years							
Nominal Cap	acity @25	5° C(20 hour r	ate@0.25A, 5.4V)	5.0Ah				
		10hou	r rate (0.48A, 5.4V)	4.80Ah				
Capacity @25	°C	5 hour	rate (0.89A, 5.25V)	4.45Ah				
		1 hour	rate (3.30A, 4.8V)	3.30Ah				
Internal Resista	ince	Full Charge	d Battery@25℃	≤20.0mΩ				
			Discharge	-15℃~45℃				
Ambient Temper	ature		Charge	-15℃~45℃				
			Storage	-15℃~45℃				
Ν	lax.Discha	arge Current@	025°С	30A (5s)				
C	4 1	40°C		105%				
Capacity affecte	2		25℃	100%				
Temperature (10 hour)	5		0°C	85%				
(10 11001)			-15℃	65%				
Sel	f-Dischar	r Month	3%					
Charge (Constant	Stan	dby Use	Initial Charging Cur Voltage 6					
Voltage) @25℃	Сус	cle Use	Initial Charging Current Less than 1.5A Voltage 7.2-7.5V					

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

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	8.28	5.50	3.85	3.30	2.06	1.41	0.94	0.64	0.53	0.30
1.65V	8.13	5.40	3.78	3.24	2.03	1.39	0.93	0.63	0.51	0.29
1.70V	7.98	5.30	3.71	3.18	1.99	1.36	0.91	0.61	0.50	0.28
1.75V	7.83	5.20	3.64	3.13	1.95	1.34	0.89	0.60	0.49	0.26
1.80V	7.53	5.00	3.50	3.00	1.88	1.29	0.86	0.58	0.48	0.25

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

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	15.94	10.59	7.41	6.35	3.98	2.73	1.81	1.23	1.01	0.53
1.65V	15.64	10.40	7.28	6.24	3.90	2.68	1.78	1.20	0.99	0.52
1.70V	15.35	10.20	7.14	6.13	3.83	2.63	1.75	1.18	0.98	0.51
1.75V	15.06	10.01	7.01	6.00	3.75	2.58	1.71	1.15	0.95	0.50
1.80V	14.49	9.63	6.74	5.78	3.61	2.48	1.65	1.11	0.91	0.49

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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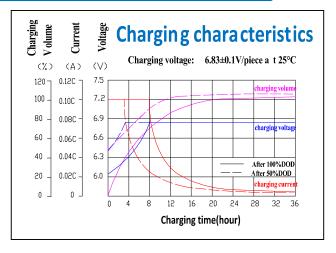
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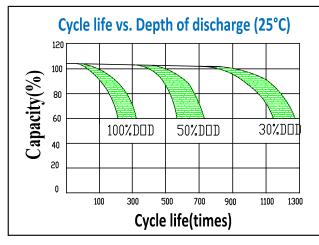
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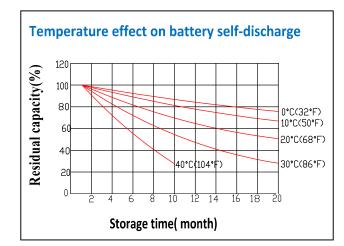
SEALED LEAD ACID AGM Battery

VTA6-5.0

PERFORMANCE CHARACTERISTICS

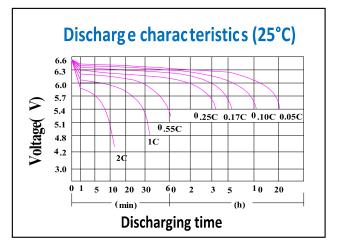


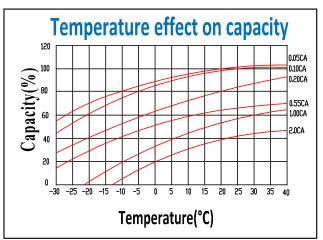




BATTERY CONSTRUCTION

Ter	nperature effect on design float life Float charging voltage: 6.85 ±0.01V (25°C)								
7.0									
6.0									
5.0									
(Jag. 4.0									
3.0 🏅									
Life (year) 0.5 1 0.5									
- 1 0.5									
0.0	0 10 20 30 40 50 60								
Temperature(°C)									





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



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