

SEALED LEAD ACID AGM Battery

VTA12-15

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	15Ah Capacity	AGM Technology	VRLA Battery
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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.**

APPLICATIONS

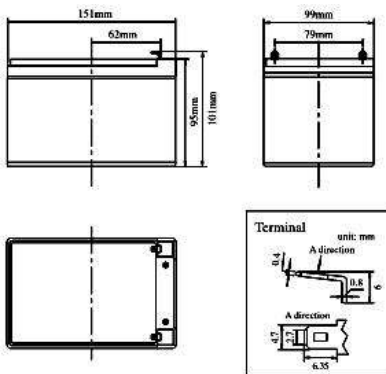
- UPS
- Emergency Lighting
- Electric Scooter
- Mobility

OMPLIED STANDARDS



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)(±3%)	3.8/8.4



TECHNICAL SPECIFICATIONS

Nominal Voltage		12V(6 cells per unit)
Design Floating Life @25°C		5 Years
Nominal Capacity @25°C(20 hour rate@0.75A,10.8V)		15Ah
Capacity @25°C	10hour rate (1.38A,10.8V)	13.8Ah
	5 hour rate (2.58A,10.5V)	12.9Ah
	1 hour rate (9.57A,9.6V)	9.57Ah
Internal Resistance	Full Charged Battery@25°C	≤13.0mΩ
Ambient Temperature	Discharge	-15°C~45°C
	Charge	-15°C~45°C
	Storage	-15°C~45°C
Max.Discharge Current@25°C		90A (5s)
Capacity affected by Temperature (10 hour)	40°C	105%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-Discharge@25°C per Month		3%
Charge (Constant Voltage) @25°C	Standby Use	Initial Charging Current Less than 4.4A Voltage 13.6-13.8V
	Cycle Use	Initial Charging Current Less than 4.4A 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	24.00	15.95	11.17	9.57	5.98	4.10	2.73	1.84	1.52	0.80
1.65V	23.57	15.66	10.96	9.40	5.87	4.02	2.68	1.80	1.49	0.79
1.70V	23.13	15.37	10.76	9.22	5.76	3.95	2.63	1.77	1.46	0.78
1.75V	22.69	15.08	10.56	9.05	5.66	3.88	2.58	1.74	1.44	0.77
1.80V	21.82	14.50	10.15	8.70	5.44	3.73	2.48	1.67	1.38	0.75

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

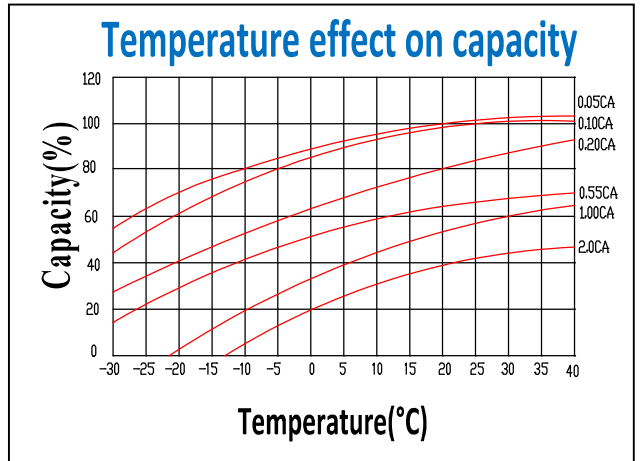
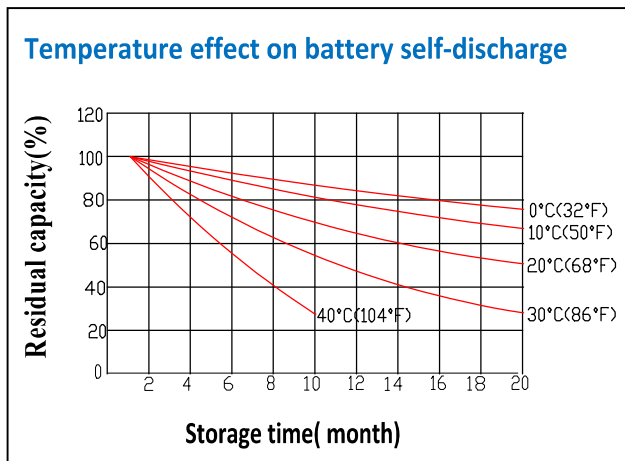
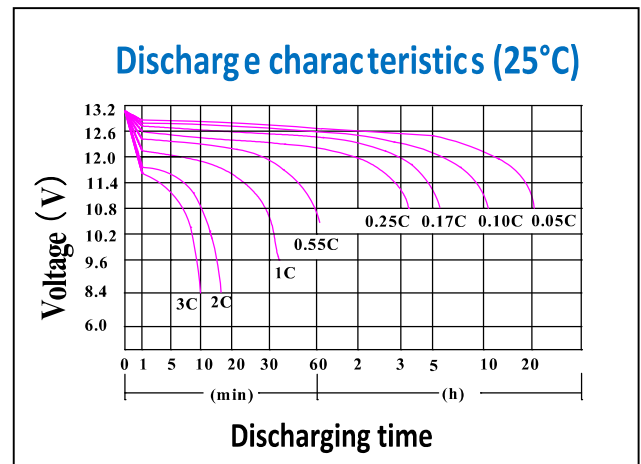
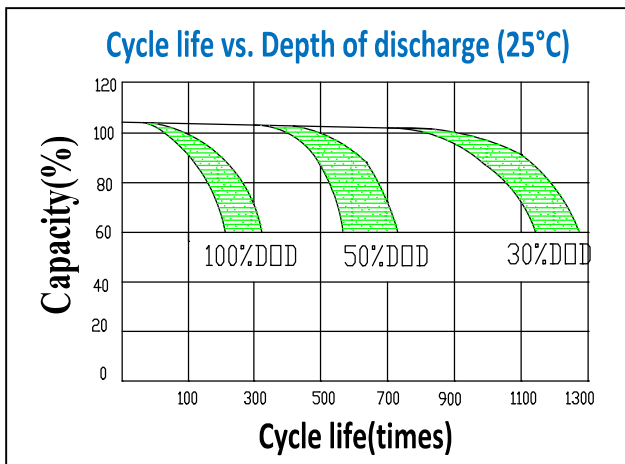
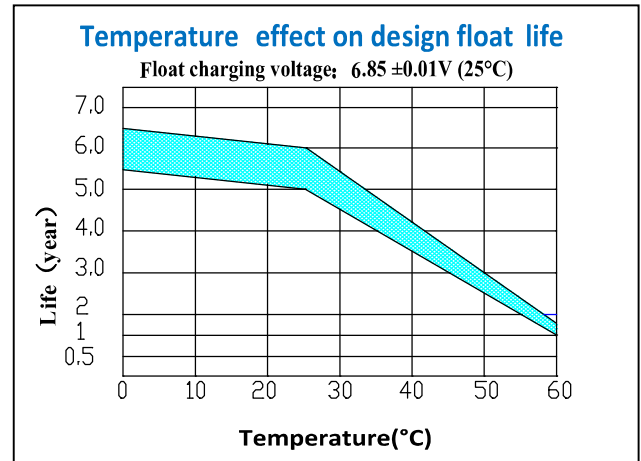
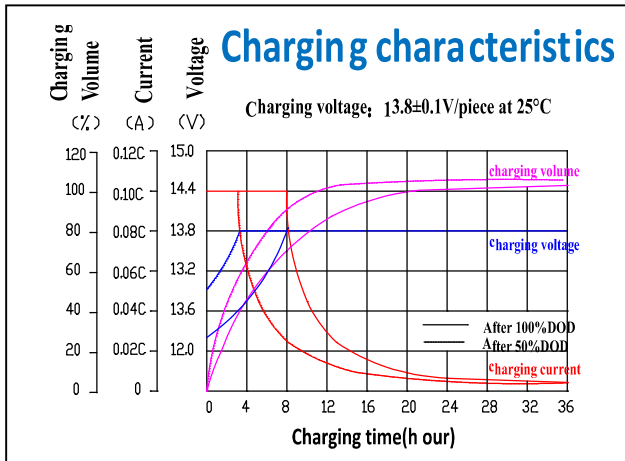
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	46.20	30.70	21.49	18.42	11.51	7.89	5.26	3.54	2.92	1.54
1.65V	45.36	30.15	21.10	18.09	11.30	7.75	5.16	3.47	2.87	1.51
1.70V	44.52	29.59	20.71	17.75	11.10	7.60	5.07	3.41	2.82	1.48
1.75V	43.68	29.03	20.32	17.42	10.89	7.46	4.97	3.34	2.76	1.45
1.80V	42.00	27.91	19.54	16.75	10.47	7.17	4.78	3.21	2.66	1.40

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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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	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