### VALIANT: Providing Constant, Safe and Reliable Power



## **SEALED LEAD ACID AGM Battery**

## VTA12-7.0 F1

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.

### **APPLICATIONS**

- ➤ UPS
- **➤** Emergency Lighting
- Electric Scooter
- Mobility

#### **COMPLIED STANDARDS**

Voltage 13.6-13.8V



### DIMENSIONS & WEIGHT

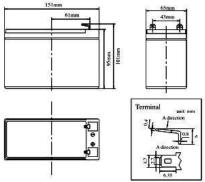
 Length(mm/inch)
 151/5.95

 Width(mm/inch)
 65/2.56

 Height(mm/inch)
 94/3.71

 Total Height(mm/inch)
 100/3.94

 Weight(kg/lbs)(±3%)
 2.05/4.52



DISCHARGE TABEL

BATTERY

### TECHNICAL SPECIFICATIONS

		_			
	12V(6 cells per unit)				
]	5 Years				
Nominal Capa	7Ah				
		10hour	rate (0.67A,10.8V)	6.7Ah	
Capacity @25	$^{\circ}\!$	5 hour	rate (1.25A,10.5V)	6.25Ah	
		1 hou	rate (4.62A,9.6V)	4.62Ah	
Internal Resista	nce	Full Charge	d Battery@25℃	≤22.0mΩ	
			Discharge	-15℃~45℃	
Ambient Temper	ature		Charge	-15℃~45℃	
			Storage	-15℃~45℃	
N	Iax.Disch	arge Current@	025°C	42A (5s)	
G :	G : 00 : 11		40°C	105%	
Capacity affecte	•		25℃	100%	
Temperature	•	0℃		85%	
(10 hour)			-15℃	65%	
Sel	Self-Discharge@25℃ per Month			3%	
Charge (Constant	Stan	dby Use Initial Charging Cur		rent Less than 2.1A	

# Voltage) @25°C Cycle Use Initial Charging Current Less than 2.1A Voltage 14.4-14.9V

Charge (Constant

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

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	14.1	8.04	5.72	4.67	2.89	1.98	1.32	0.89	0.73	0.39
1.65V	13.7	7.82	5.57	4.51	2.84	1.94	1.30	0.87	0.72	0.38
1.70V	13.4	7.61	5.42	4.35	2.78	1.91	1.27	0.85	0.71	0.37
1.75V	13.0	7.39	5.26	4.19	2.73	1.87	1.25	0.84	0.69	0.36
1.80V	12.6	7.18	5.11	4.03	2.63	1.80	1.20	0.81	0.67	0.35

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

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	27.2	15.47	11.02	8.99	5.56	3.81	2.54	1.71	1.41	0.74
1.65V	26.4	15.05	10.72	8.68	5.46	3.74	2.49	1.68	1.39	0.73
1.70V	25.7	14.64	10.43	8.37	5.36	3.67	2.45	1.65	1.36	0.71
1.75V	25.0	14.23	10.13	8.06	5.26	3.60	2.40	1.61	1.33	0.70
1.80V	24.3	13.81	9.84	7.75	5.05	3.46	2.31	1.55	1.28	0.67

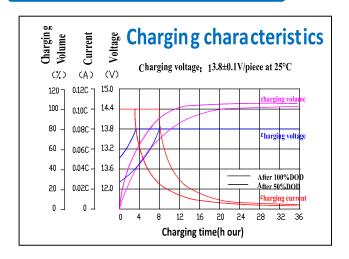
Note: The above data is based on average values and can typically be achieved within 3 charge/discharge cycles. Battery designs and specifications are subject to change without notice. Contact **Valiant** for the latest information.

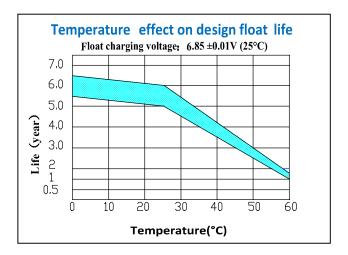


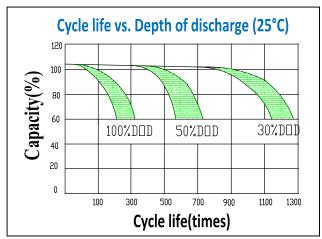
# **SEALED LEAD ACID AGM Battery**

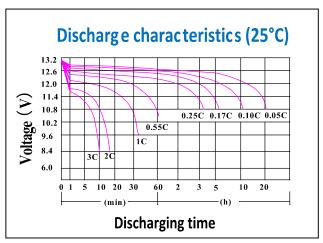
# VTA12-7.0 F1

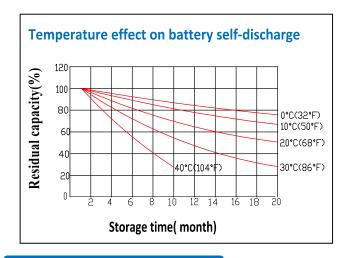
### PERFORMANCE CHARACTERISTICS

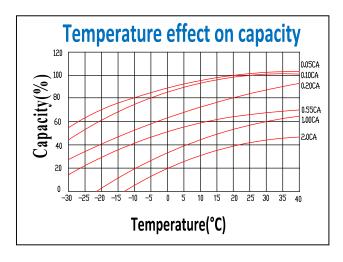












### **BATTERY CONSTRUCTION**

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

