VALIANT BATTERY: Constant, Safe POWER for YOU



Deep Cycle VRLA AGM Battery

The Valiant VTD series deep cycle AGM battery features special additives to the positive plate and advanced AGM separators which increase cycle life up to 70% higher compared with standard AGM batteries. This technology also provides up to 15 years of float life. The VTD series is highly suited for systems that rely heavily on battery storage power such as off-grid solar systems, RV and marine and electric vehicles.













COMPLIED STANDARDS

IEC 60896-21/22 JIS C8704 YD/T799 ISO9001 GB/T 19638 CE

GENERAL FEATURES



- Thicker plate with high Tin low Calcium alloy
- Deep discharge recovery, 1200cycle @ 50% DOD
- · 2years full warranty in most applications
- · Longer Service Life, in both Float or Cycling applications

➤ UPS/Telecom > Electric vehicle

Golf cart

APPLICATIONS

> RV and marine

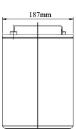
Off-grid solar systems

· High Power Density

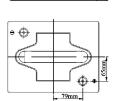
DIMENSIONS & WEIGHT

 260 ± 1 Length(mm) Width(mm) 180 ± 1 Height(mm) 249 ± 1 Total Height(mm) 249 ± 1

Weight(kg)



 $30.5 \pm 3\%$





TECHNICAL

Non	6V(3 cells per unit)						
Design Flo	15 Years						
Nominal Capacity @25	Nominal Capacity @25°C (20 hour rate@11.25A,5.4V)						
	10hour rate (20.3A,5.4V)	203Ah					
Capacity @25°C	5 hour rate (35.8A,5.25V)	179Ah					
	1 hour rate (125.0A,4.8V)	125.0Ah					
Internal Resistance	Full Charged Battery@25°C	≤2.8 mΩ					
	Discharge	-15°C~45°C					
Ambient Temperature	Charge	-15°C~45°C					
	Storage	-15℃~45℃					
Max.Discha	1080A(5s)						
G	40℃	105%					
Capacity affected by	25℃	100%					
Temperature	0℃	85%					
(10 hour)	-15℃	65%					
Self-Dischar	3%						

Charge (Constant Voltage) @25℃	Standby Use	Initial Charging Current Less than 45A		
	3	Voltage 6.8-6.9V		
	Cycle Use	Initial Charging Current Less than 45A		
		Voltage 7.2-7.45V		

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	100h
1.60V	289.6	184.4	136.1	125.0	79.3	55.7	37.9	25.0	22.3	12.15	2.70
1.65V	284.3	181.0	133.7	122.7	77.9	54.7	37.2	24.5	21.9	11.93	2.65
1.70V	279.0	177.7	131.2	120.4	76.4	53.7	36.5	24.1	21.5	11.7	2.60
1.75V	273.8	174.3	128.7	118.2	75.0	52.7	35.8	23.6	21.1	11.48	2.55
1.80V	263.3	167.6	123.8	113.6	72.1	50.6	34.4	22.7	20.3	11.25	2.50

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

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	557.4	354.9	262.0	240.6	152.7	107.2	72.9	48.1	42.9	23.4	5.19
1.65V	547.3	348.5	257.3	236.2	149.9	105.2	71.6	47.2	42.1	23.0	5.10
1.70V	537.2	342.0	252.5	231.9	147.1	103.3	70.2	46.4	41.3	22.5	5.00
1.75V	527.0	335.6	247.7	227.5	144.4	101.4	68.9	45.5	40.5	22.1	4.90
1.80V	506.8	322.7	238.2	218.7	138.8	97.5	66.3	43.7	39.0	21.7	4.81

Note The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact VALIANT for the latest information.

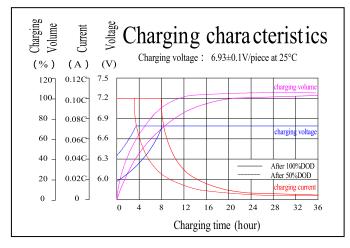


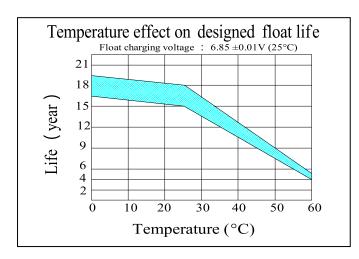
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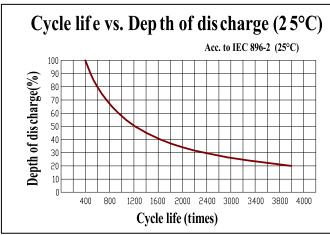
VTD6-225

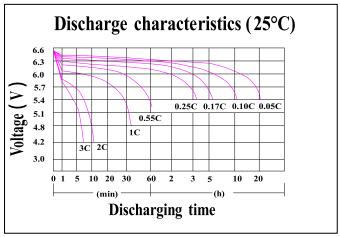
PERFORMANCE CHARACTERISTICS

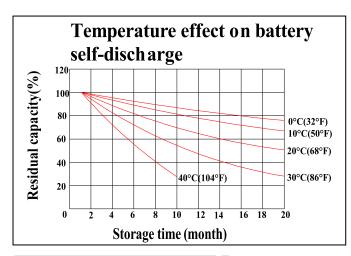


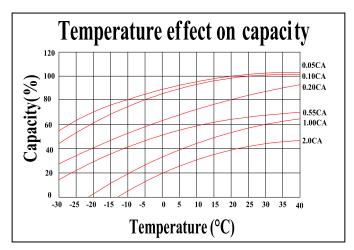












BATTERY CONSTRUCTION



Component	Positive plate	Negative plate	Container &Cover	Safety valve	
Features	Thick high Sn low Ca grid with Special paste	Balanced Pb-Ca grid for improved recombinati on efficiency	Fire resistanc e ABS (UL94-V0octional)	Flame Si-Rubber and aging resistance	
Component	Terminal	Separator	Electrolyte	Pillar seal	
Features	Female Copper Insert	Advanced PVC /AGM separator for high pressure cell desbm	Dilute high purity sulfuric acid	Two layers epoxy resin seal	