



VTD6-225 (6V 225AH/20HR)

Deep Cycle 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.

6V
225Ah

AGM
Technology

Deep
Cycle



Applications

- Off-grid solar systems
- RV and marine
- UPS/Telecom
- Electric vehicle
- Golf cart

General Features

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



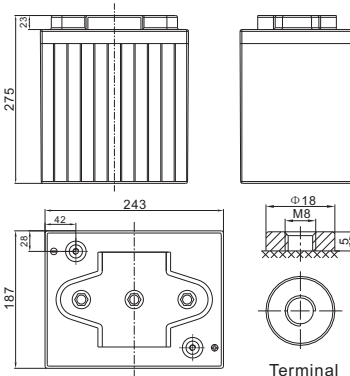
COMPLIED STANDARDS

IEC 60896-21/22
YD/T799
GB/T 19638

JIS C8704
BS6290 part4
CE

Dimensions & Weight

Length(mm/inch)	243/9.57
Width(mm/inch)	187/7.36
Height(mm/inch)	275/10.83
Total Height(mm/inch)	275/10.83
Weight(kg/lbs)(±3%)	30.5/67.2



Technical Specifications

Nominal Voltage		6V (3 cells per unit)
Design Floating Life @ 25°C		15 Years
Nominal Capacity @ 25°C	20 hour rate@11.25A, 5.4V	225Ah
Capacity @ 25°C	10 hour rate (20.3A, 5.4V)	203Ah
	5 hour rate (35.8A, 5.25V)	179Ah
	1 hour rate (129.9A, 4.8V)	129.9Ah
Internal Resistance	Full Charged Battery@ 25°C	≤2.8mΩ
Ambient Temperature	Discharge	-15°C~45°C
	Charge	-15°C~45°C
	Storage	-15°C~45°C
Max.Discharge Current		@ 25°C 1080A(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 45A Voltage 6.8-6.9V
	Cycle Use	Initial Charging Current Less than 45A Voltage 7.2-7.45V

Battery Discharge Table

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	351.5	209.1	148.5	129.9	79.3	55.7	37.9	25.0	22.3	12.2	2.70
1.65V	345.1	205.3	145.8	127.6	77.9	54.7	37.2	24.5	21.9	11.9	2.65
1.70V	338.7	201.5	143.1	125.2	76.4	53.7	36.5	24.1	21.5	11.7	2.60
1.75V	332.3	197.7	140.4	122.9	75.0	52.7	35.8	23.6	21.1	11.5	2.55
1.80V	319.5	190.1	135.0	118.1	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	676.5	402.6	285.9	250.1	152.7	107.2	72.9	48.1	42.9	23.4	5.19
1.65V	664.2	395.3	280.7	245.6	149.9	105.2	71.6	47.2	42.1	23.0	5.10
1.70V	651.9	388.0	275.5	241.0	147.1	103.3	70.2	46.4	41.3	22.5	5.00
1.75V	639.6	380.6	270.3	236.5	144.4	101.4	68.9	45.5	40.5	22.1	4.90
1.80V	615.0	366.0	259.9	227.4	138.8	97.5	66.3	43.7	39.0	21.7	4.81

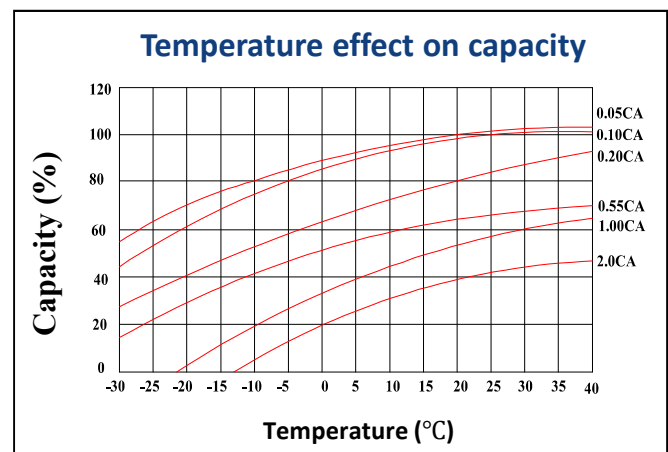
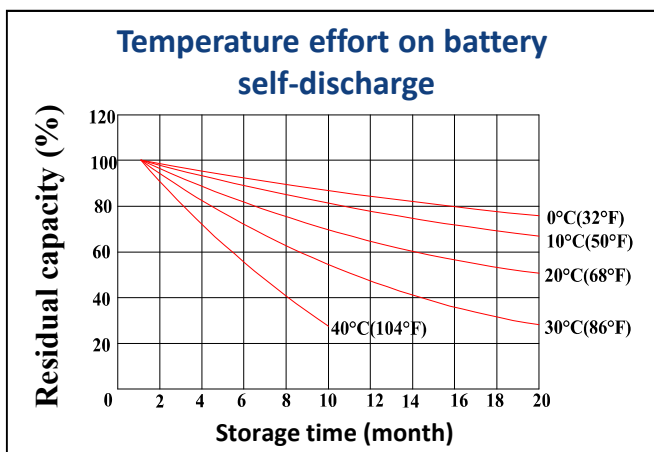
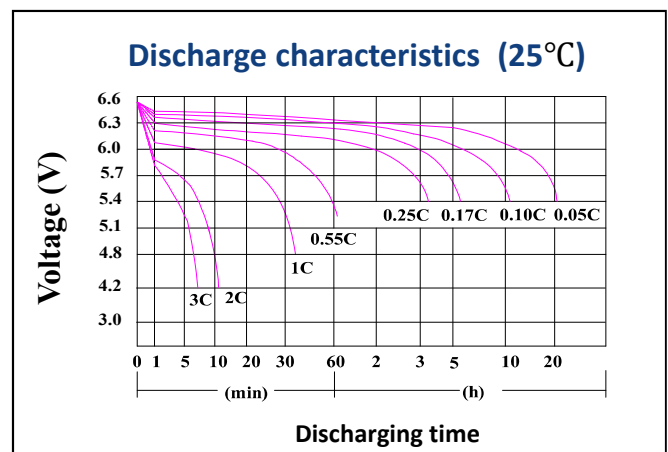
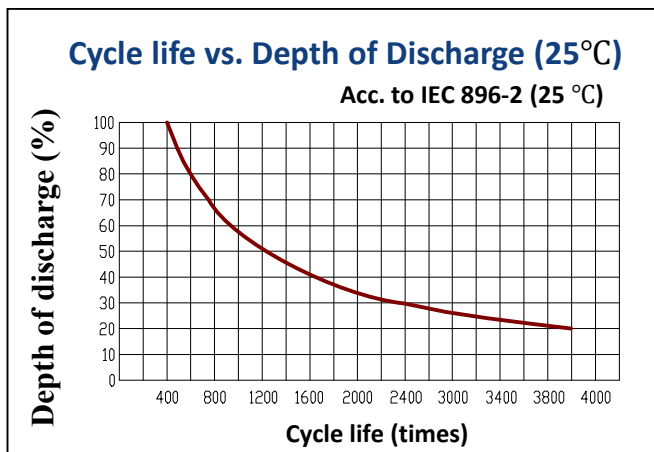
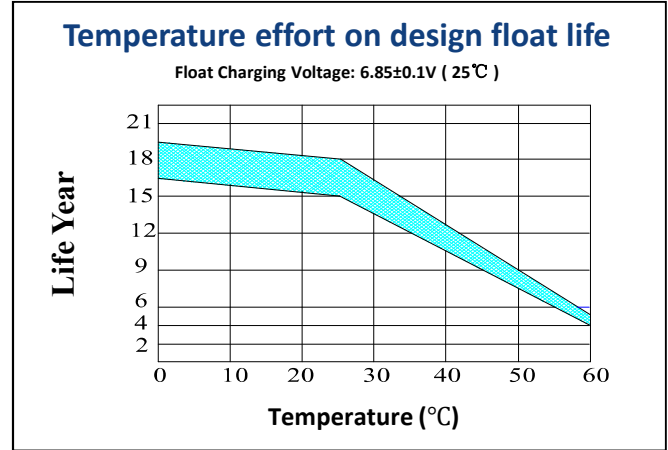
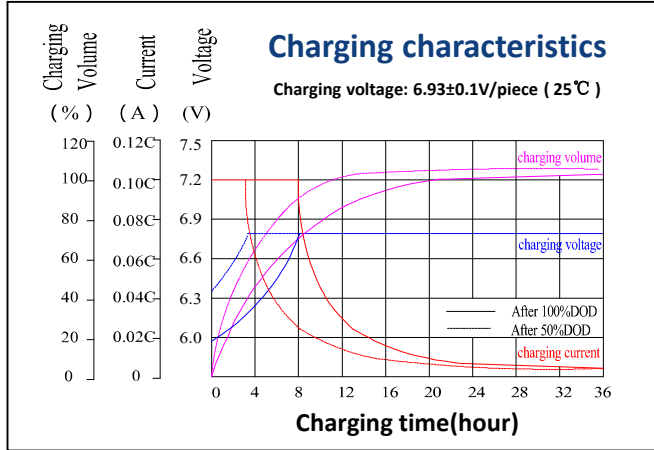




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Performance Characteristics



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-VO optional)	Flame Si-Rubber and aging resistant	M8	Advanced AGM separator for high pressure cell design	Dilute high purity sulfonic acid	Two layers epoxy resin seal

