VFT12-200A (12V 200AH/10HR)
Nonspillable VRLA Battery

VALIANT VFT Series is specially designed for telecom use with 8-10 year design life in float service. By adopting a new AGM separator and centralized venting system, the battery can be installed in any position while maintaining high reliability. The dimensions of the VFT series are designed for 19" and 23“ cabinet installation . It is suitable for telecom EPS, applications.

12V 200Ah ***AGM Technology*** ***Telecom Battery***

Applications

- Telecom Control Equipment
- UPS systems, Inverter
- Power Equipment
- Solar & Wind
- Emergency Power Systems

General Features

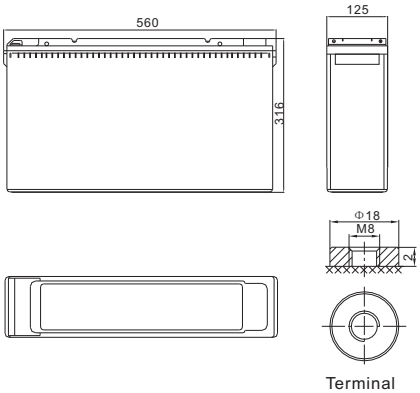
- Advanced AGM technology, and Maintenance-free operation
- Front access terminal with standard width for 19” and 23” ETSI racks
- Fire resistant ABS container
- Long float service life 10 years
- Low self discharge < 3%.

COMPLIED STANDARDS

IEC 60896-21/22	**JIS C8704**
YD/T799	**BS6290 part4**
GB/T 19638	**CE**

Dimensions & Weight

Length(mm/inch)	560/22.05
Width(mm/inch)	125/4.92
Height(mm/inch)	316/12.44
Total Height(mm/inch)	316/12.44
Weigt(kg/lbs)(±3%)	59.0/130.0



Technical Specifications

Nominal Voltage		12V (6 cells per unit)
Design Floating Life @ 25℃		10 Years
Nominal Capacity @ 25℃	10 hour rate@20.0A,10.8V	200Ah
Capacity @ 25℃	20 hour rate (10.6A, 10.8V)	212Ah
	5 hour rate (35.2A, 10.5V)	176Ah
	1 hour rate (127.6A, 9.6V)	127.6Ah
Internal Resistance	Full Charged Battery@ 25℃	≤3.2mΩ
Ambient Temperature	Discharge	-15℃ ~ 45℃
	Charge	-15℃ ~ 45℃
	Storage	-15℃ ~ 45℃
Max.Discharge Current @ 25℃		2000A (5s)
Capacity affected by Temperature (10 hour)	40℃	200%
	25℃	100%
	0℃	85%
	-15℃	65%
Self-Discharge@25℃per Month		3%
Charge (Constant Voltage) @ 25°C	Standby Use	Initial Charging Current Less than 50.0A Voltage 13.6-13.8V
	Cycle Use	Initial Charging Current Less than 50.0A Voltage 14.4-14.9V

Battery Discharge Table

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

F.V/Time	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	465.0	361.0	216.6	161.0	127.6	75.0	55.2	37.2	25.4	21.0	11.1
1.65V	430.2	341.0	209.4	154.8	123.8	72.6	53.4	36.6	25.2	20.6	11.0
1.70V	399.0	320.2	203.6	149.2	119.0	70.6	52.0	35.8	24.8	20.4	10.9
1.75V	372.6	300.0	193.0	142.6	114.2	68.8	50.8	35.2	24.4	20.2	10.8
1.80V	335.2	281.4	186.2	137.4	110.2	66.2	49.2	34.4	24.0	20.0	10.6

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

F.V/Time	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	836.4	690.2	422.2	305.8	244.8	142.2	105.4	71.8	49.6	41.0	21.4
1.65V	782.8	660.4	403.8	295.4	238.2	138.4	102.6	70.6	49.2	40.6	21.2
1.70V	733.0	615.4	387.2	286.0	230.0	135.2	100.2	69.6	48.6	40.2	21.0
1.75V	689.8	577.4	368.6	274.6	221.6	132.0	98.2	68.6	48.0	39.8	20.8
1.80V	624.4	542.0	353.6	265.4	214.4	127.6	95.4	67.2	47.4	39.6	20.6

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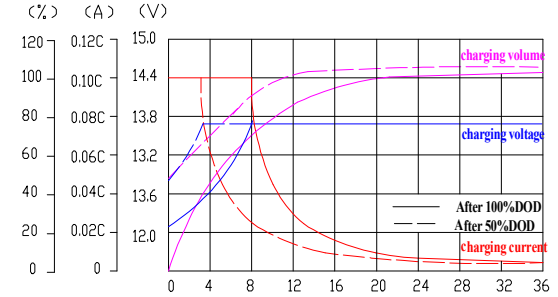
Performance Characteristics

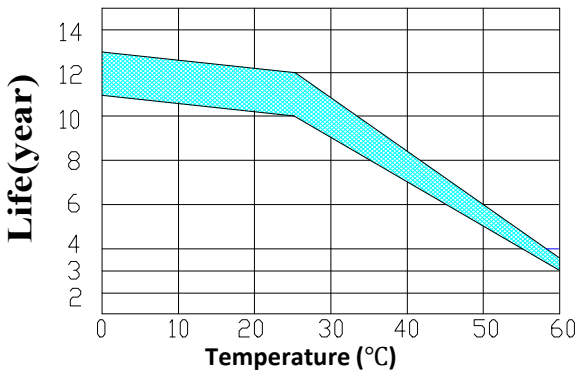
Charging characteristics

Charging voltage: 13.65±0.1V/piece (25℃)

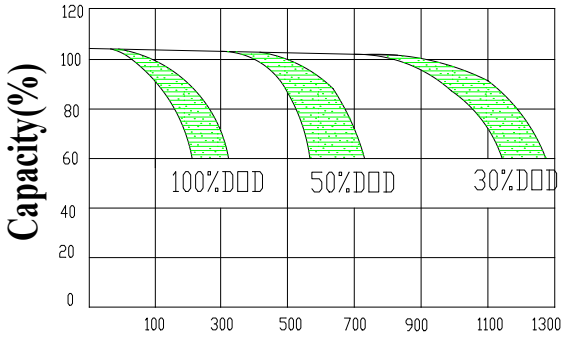


Temperature effort on design float life

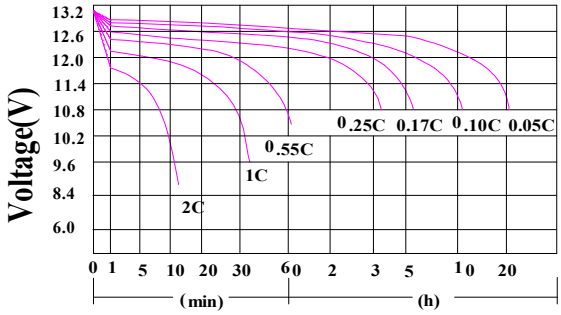
Float Charging Voltage: 13.65±0.1V (25℃)



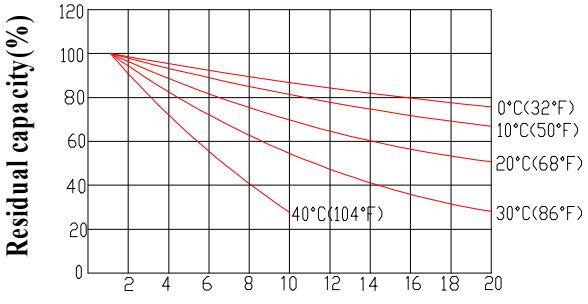
Cycle life vs. Depth of Discharge (25℃)



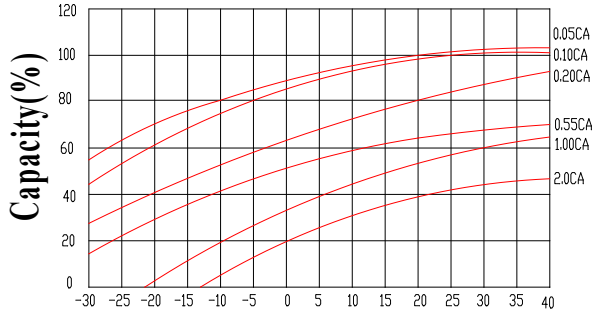
Discharge characteristics (25℃)



Temperature effort on battery self-discharge



Temperature effect on capacity



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	Fire resistant ABS (UL94-V0 optional)	Flame Si-Rubber and aging resistant	Female Copper Insert M8	Advanced AGM separator for high pressure cell design	Dilute high purity sulfuric acid	Two layers epoxy resin seal