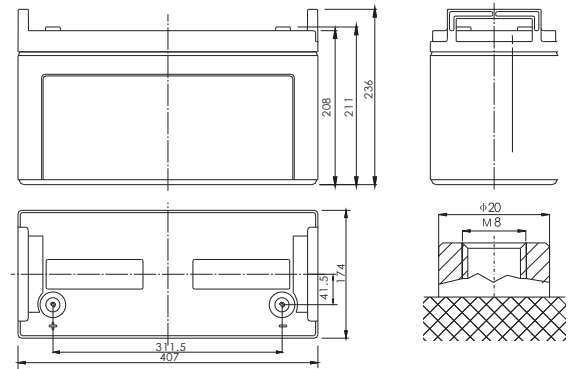




Voltan Battery cabinets are designed for VRLA batteries in the capacity range 7/9AH. It is available in different heights and capacities for UPS, telecom and other applications. Flexible battery configuration and rack system are widely used in parallel applications.

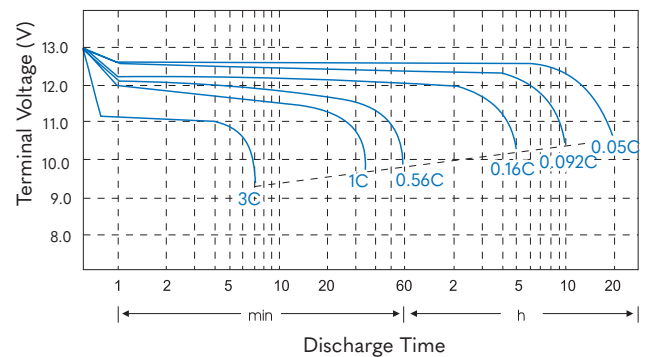
Specifications

Nominal Voltage		12V
Rated Capacity(10 hour rate)		120Ah
Dimensions	Total Height (with terminals)	9.29 inches (236mm)
	Height	8.19 inches (208mm)
	Length	16.02 inches (407mm)
	Width	6.85 inches (174mm)
Weight		Approx. 75.90 Pound(34.5kg)

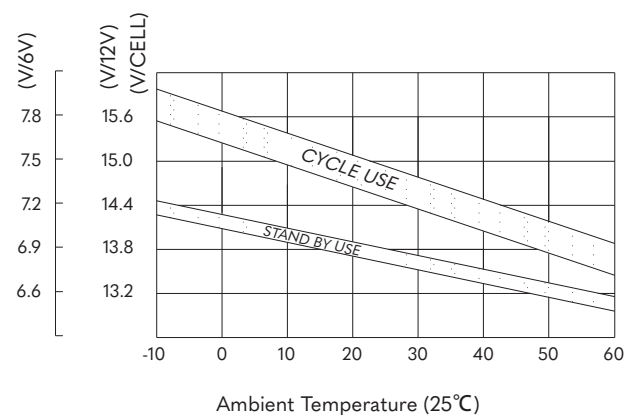
Characteristics

Capacity 77°F(25°C)	10 hour rate (12A)	120Ah
	5 hour rate (19.2A)	96Ah
	1 hour rate (72A)	72Ah
	15 minute rate (197)	49.2Ah
Internal Resistance	Full Charged Battery 77°F(25°C)	4.0 mΩ
Capacity Affected by temperature (20 Hour Rate)	104°F(40°C)	102%
	77°F(25°C)	100%
	32°F(0°C)	85%
	5°F(15°C)	65%
Self-Discharge 77°F(25°C)	Capacity after 3 months storage	91%
	Capacity after 6 months storage	81%
	Capacity after 12 months storage	60%
Max. Discharge Current 77°F(25°C)	960A(5S)	
Terminal	T3	
Charge (Constant Voltage)	Cycle	Initial Charging Current Less than 36A
		Voltage 14.1 V / 77°F(25°C) Equalization temperature compensation coefficient: -24mV/°C
	Float	Voltage 13.5V / 77°F(25°C) Compensation coefficient of floating charging temperature-18mV/°C

Discharge Curves 77°F(25°C)



Relationship Between Charge Voltage and Temperature



Constant Current Discharge (Amperes @25°C)

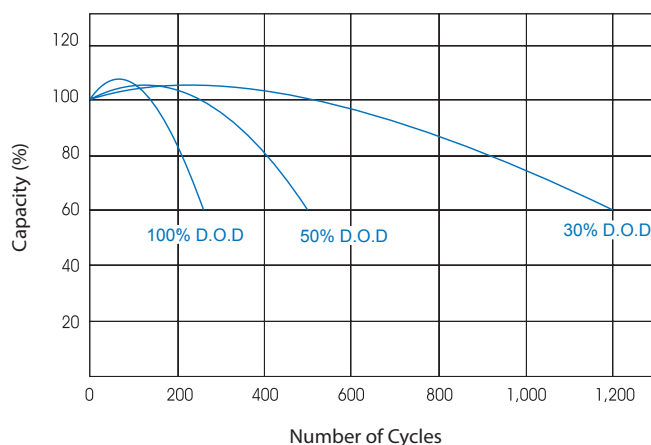
F.V Time	10Min	15Min	30Min	60Min	2H	3H	4H	5H	8H	10H	20H
1.60	271	197	127	76.1	44.2	31.7	24.8	21.3	14.6	12.9	7.10
1.65	261	189	122	73.2	42.5	31.6	24.5	21.2	14.5	12.8	7.04
1.70	246	182	104	73.1	41.9	31.5	23.6	21.0	14.1	12.6	6.93
1.75	215	172	97.9	72.0	41.7	31.2	22.9	20.3	13.9	12.5	6.88
1.80	207	165	94.1	69.2	40.1	30.0	22.0	19.2	13.4	12.0	6.60
1.85	170	144	86.6	63.7	38.5	29.4	20.9	18.5	12.7	11.6	6.38

Constant Power Discharge (Watts Per Cell@25°C)

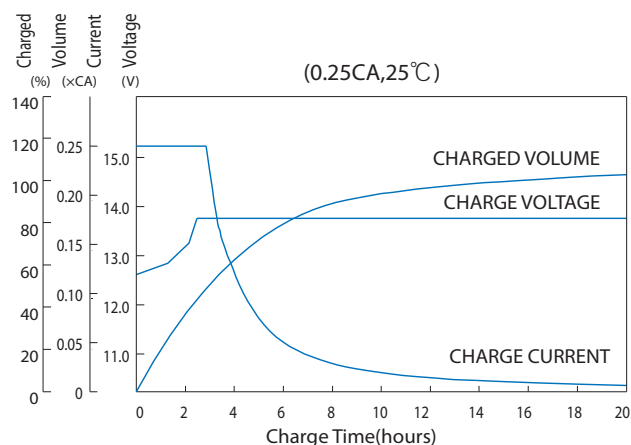
F.V Time	10Min	15Min	30Min	60Min	2H	3H	4H	5H	8H	10H	20H
1.60	473	368	229	143	84.0	58.9	46.5	38.9	27.5	24.5	13.5
1.65	467	365	222	138	82.9	58.8	46.3	38.6	27.4	24.3	13.4
1.70	455	349	194	133	82.1	57.2	45.2	37.9	26.8	23.9	13.2
1.75	415	329	187	130	81.5	55.7	44.1	37.2	26.0	23.8	13.1
1.80	396	317	181	128	79.9	55.3	43.7	36.6	25.7	22.8	12.5
1.85	328	277	169	125	77.0	54.0	42.5	35.4	24.1	21.8	12.0

The operating environment temperature above 40°C should be avoided ,After long time storage, The battery actual capacity would be less than the rated capacity. Full capacity will be obtained through several charge/discharge cycles.

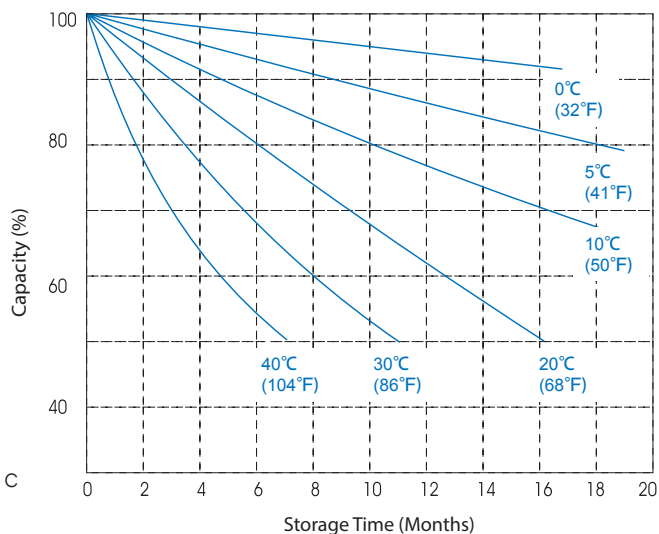
Cycle Service Life in Relation to Depth of Discharge



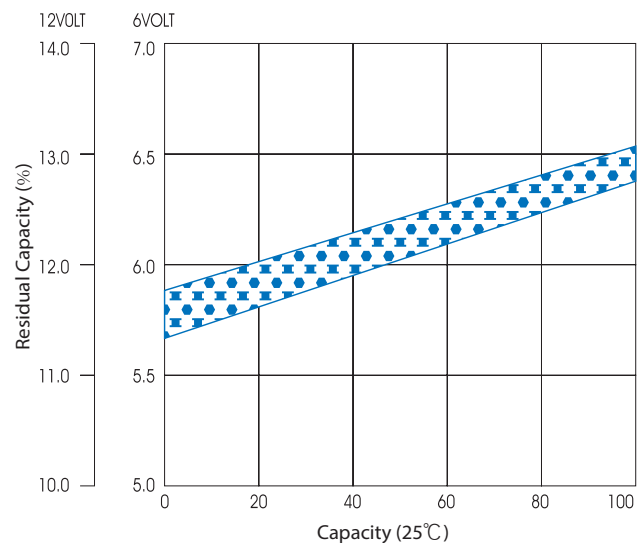
Constant Voltage Charge Characteristic



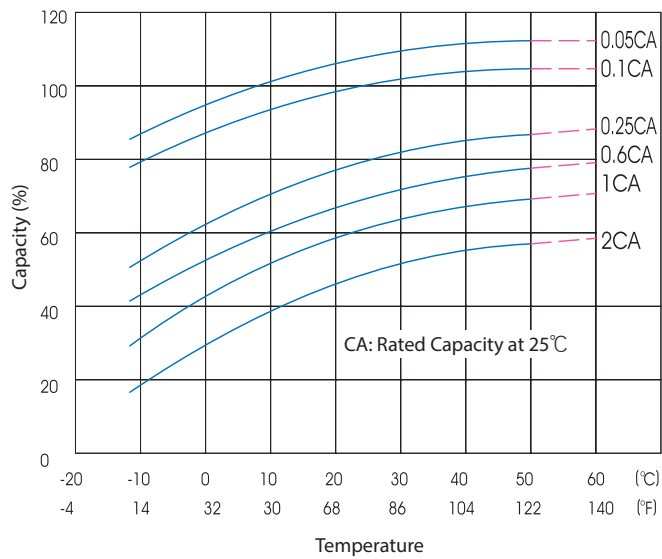
Self-Discharge Characteristics



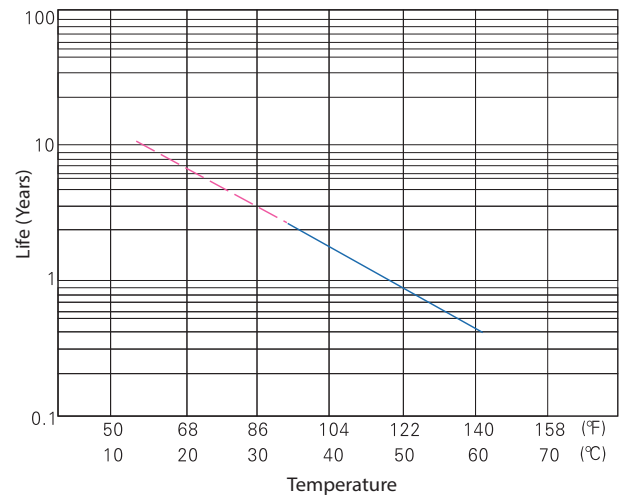
Relationship of OCV and Residual Capacity % (25°C)



Temperature Effects on Capacity



Temperature Effects Float Life



ORDERING INFORMATION

Part Number	Description
V6-FM-120	12V/120AH Battery