

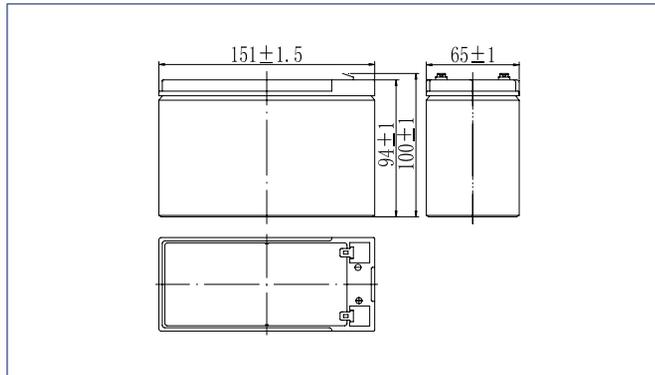
12V  
7.2AH

viotech  
battery

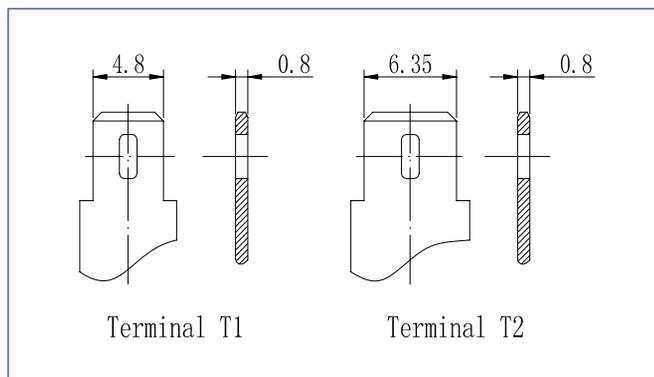
## SPECIFICATIONS

Model	VT7.2-12	
Nominal Voltage	12V	
Rated capacity (20 hour rate)	7.2Ah	
Dimensions	Length	151± 1.5mm(5.94inch)
	Width	65± 1mm(2.56inch)
	Height	94± 1mm(3.70inch)
	Total Height	100± 1mm(3.94inch)
Approx. Weight	2.18kg(4.81lbs)± 5%	

## OUTER DIMENSIONS (MM)



## TERMINAL TYPE (MM)



## CHARACTERISTICS

Capacity (25 °C)	20HR(10.5V)	7.2Ah
	10HR(10.5V)	6.7Ah
	1HR(9.60V)	4.68Ah
Terminal type		T1/T2
Internal resistance (Fully charged,25 °C)		Approx.28m Ω
Capacity affected by temperature (20HR)	40 °C	102%
	25 °C	100%
	0 °C	85%
	-15 °C	65%
Self-discharge (25 °C)	3 months	Remaining Capacity:91%
	6 months	Remaining Capacity:82%
	12 months	Remaining Capacity:65%
Nominal operating temperature		25°C± 3°C(77°F± 5°F)
Operating temperature range	Discharge	-15°C~50°C(5°F~122°F)
	Charge	-10°C~50°C(14°F~122°F)
	Storage	-20°C~50°C(-4°F~122°F)
Float charging voltage(25°C)		13.60 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.50 to 14.90V Temperature compensation: -30mV/°C
Maximum charging current		2.16A
Terminal material		Copper
Maximum discharge current		108A(5 sec.)
Designed floating life(20°C)		10 years

## CONSTANT CURRENT DISCHARGE CHARACTERISTICS UNIT: A (25°C)

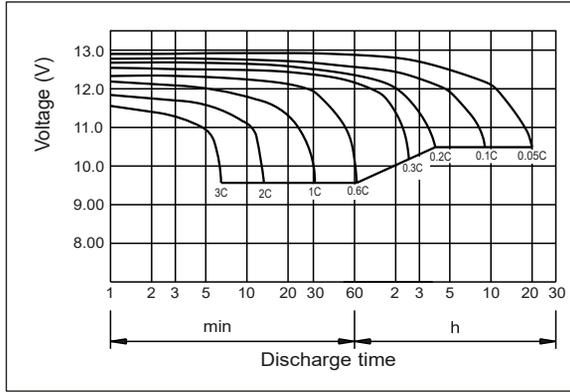
F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	27.4	17.3	13.7	7.63	4.68	2.56	1.84	1.47	1.25	0.82	0.68	0.37
9.90V	26.5	16.8	13.4	7.48	4.61	2.54	1.83	1.46	1.24	0.81	0.68	0.36
10.2V	25.4	16.1	12.9	7.25	4.49	2.52	1.81	1.45	1.23	0.80	0.67	0.36
10.5V	24.4	15.4	12.4	7.07	4.40	2.48	1.80	1.44	1.22	0.80	0.67	0.36
10.8V	23.0	14.5	11.8	6.82	4.27	2.42	1.75	1.40	1.19	0.77	0.66	0.35

## CONSTANT POWER DISCHARGE CHARACTERISTICS UNIT: W (25°C)

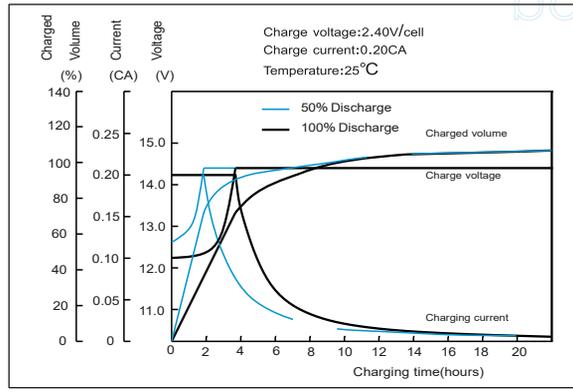
F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	305	195	156	87.5	54.2	29.9	21.8	17.5	14.9	9.68	8.16	4.38
9.90V	296	189	152	85.7	53.4	29.7	21.7	17.4	14.8	9.65	8.12	4.37
10.2V	284	181	147	83.1	52.0	29.5	21.5	17.3	14.7	9.60	8.08	4.35
10.5V	272	173	142	81.1	51.0	29.0	21.4	17.2	14.6	9.48	8.04	4.32
10.8V	256	164	134	78.1	49.4	28.3	20.7	16.6	14.2	9.20	7.87	4.23

**Note:** The above characteristics data can be obtained within three charge/discharge cycles

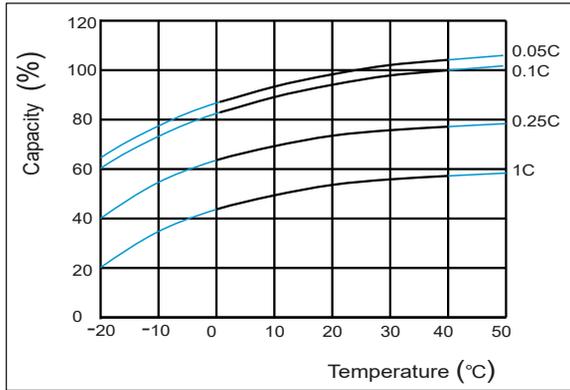
**DISCHARGE CHARACTERISTICS (25°C)**



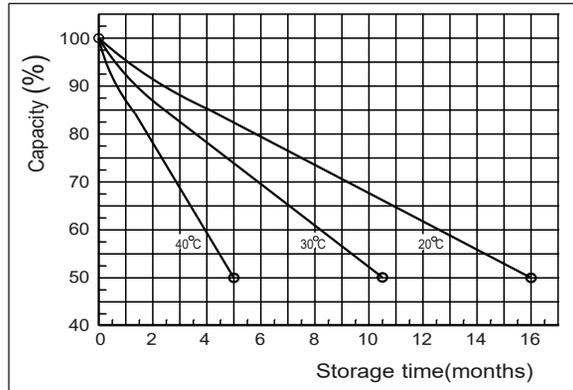
**CHARGING CHARACTERISTICS (25°C)**



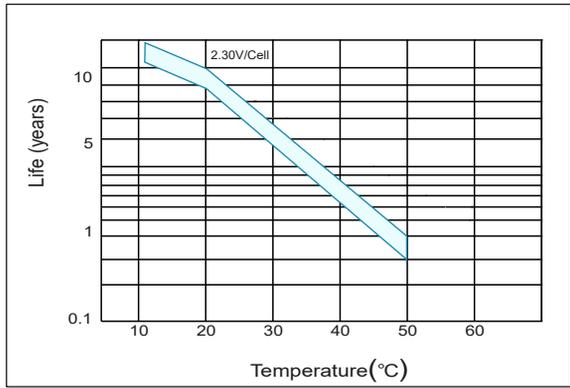
**TEMPERATURE EFFECTS ON CAPACITY**



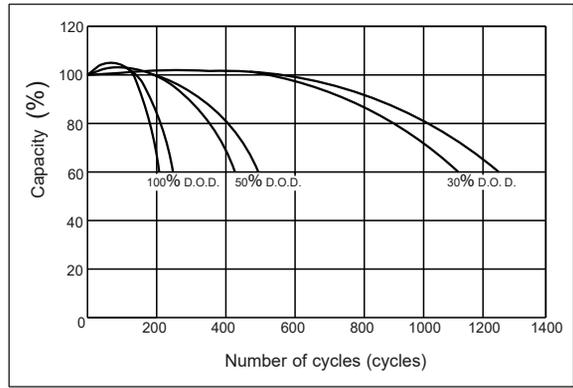
**SELF-DISCHARGE CHARACTERISTICS**



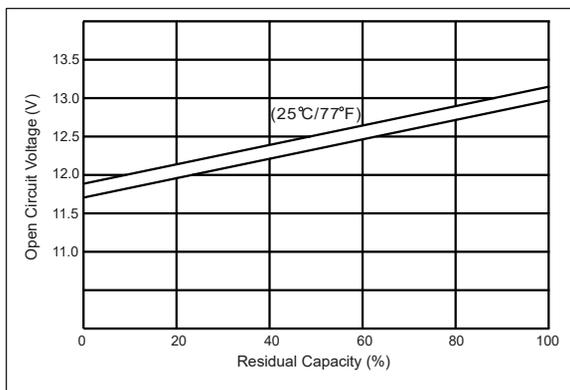
**FLOATING LIFE ON TEMPERATURE**



**CYCLE LIFE ON D.O.D (25°C)**



**THE RELATIONSHIP FOR OCV AND CAPACITY (25°C)**



**THE RELATIONSHIP FOR CHARGING VOLTAGE AND TEMPERATURE**

