

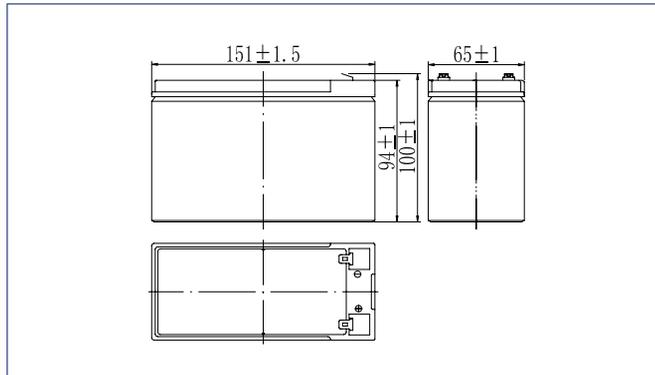
12V  
7AH

viotech  
battery

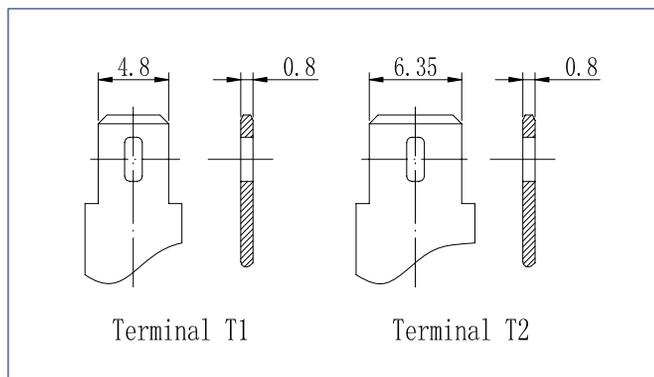
## SPECIFICATIONS

Model	VTE 7-12	
Nominal Voltage	12V	
Rated capacity (20 hour rate)	7.0Ah	
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	1.85kg(4.08lbs)±5%	

## OUTER DIMENSIONS (MM)



## TERMINAL TYPE (MM)



## CHARACTERISTICS

Capacity (25 °C)	20HR(10.2V)	7.0Ah
	10HR(10.5V)	6Ah
	1HR(9.60V)	4.23Ah
Terminal type		T1/T2
Internal resistance (Fully charged,25 °C)		Approx.32m 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		1.95A
Terminal material		Copper
Maximum discharge current		97.5A(5 sec.)
Designed floating life(20°C)		5 years

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

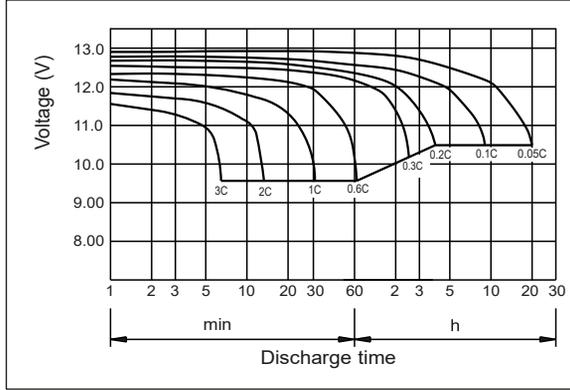
F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	24.7	15.6	12.4	6.89	4.23	2.31	1.66	1.33	1.13	0.73	0.61	0.35
9.90V	24.0	15.1	12.1	6.75	4.16	2.30	1.65	1.32	1.12	0.73	0.61	0.35
10.2V	23.0	14.5	11.6	6.55	4.06	2.28	1.64	1.31	1.11	0.73	0.61	0.35
10.5V	22.0	13.9	11.2	6.39	3.98	2.24	1.63	1.30	1.11	0.71	0.60	0.33
10.8V	20.7	13.1	10.6	6.15	3.85	2.18	1.58	1.26	1.07	0.69	0.59	0.32

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

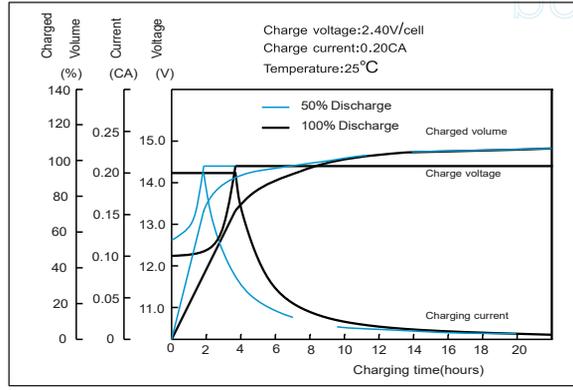
F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	276	176	141	79.0	48.9	27.0	19.7	15.8	13.5	8.73	7.36	3.96
9.90V	267	171	137	77.4	48.2	26.9	19.6	15.7	13.4	8.70	7.33	3.94
10.2V	256	164	132	75.0	47.0	26.6	19.4	15.6	13.3	8.68	7.30	3.92
10.5V	245	157	128	73.2	46.0	26.2	19.3	15.5	13.2	8.56	7.25	3.90
10.8V	232	148	121	70.5	44.6	25.6	18.7	15.0	12.8	8.31	7.11	3.82

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

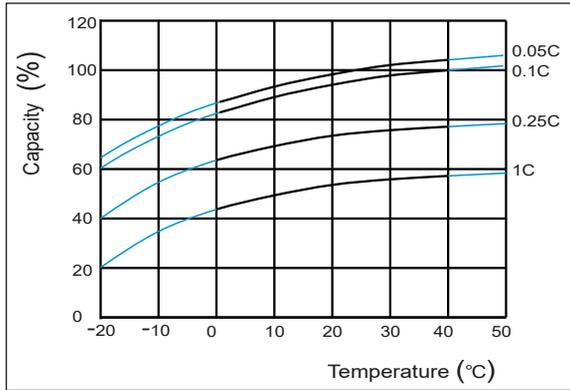
**DISCHARGE CHARACTERISTICS (25°C)**



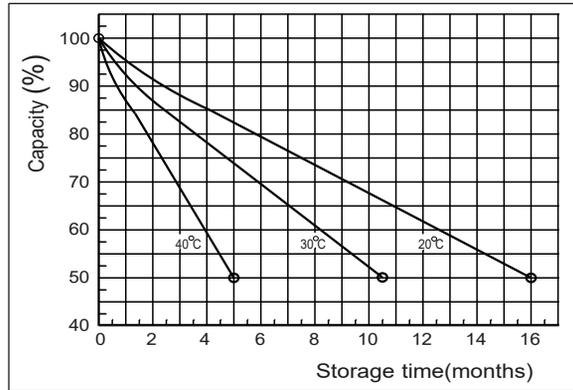
**CHARGING CHARACTERISTICS (25°C)**



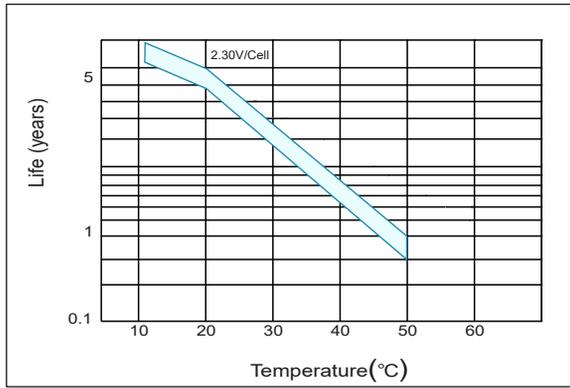
**TEMPERATURE EFFECTS ON CAPACITY**



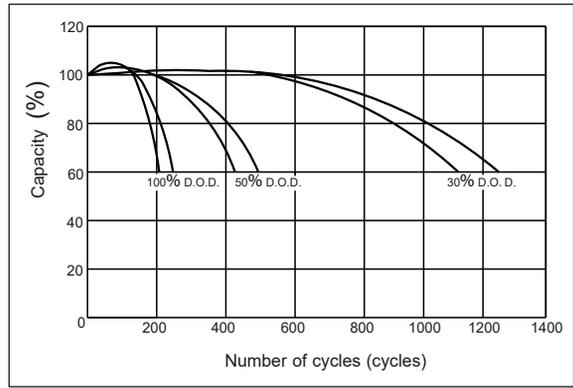
**SELF-DISCHARGE CHARACTERISTICS**



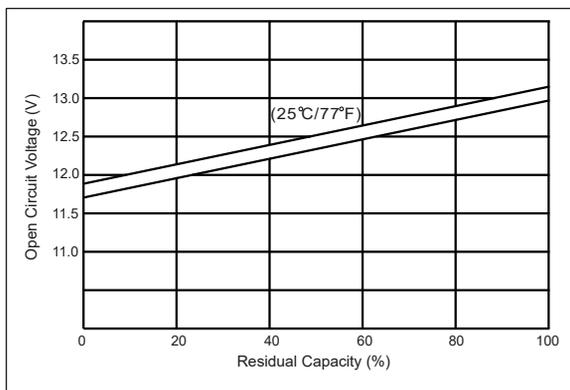
**FLOATING LIFE ON TEMPERATURE**



**CYCLE LIFE ON D.O.D (25°C)**



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



**THE RELATIONSHIP FOR CHARGING VOLTAGE AND TEMPERATURE**

