

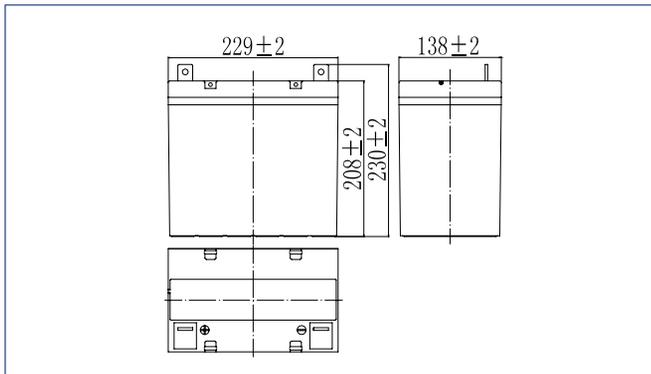
12V
55AH

viotech
battery

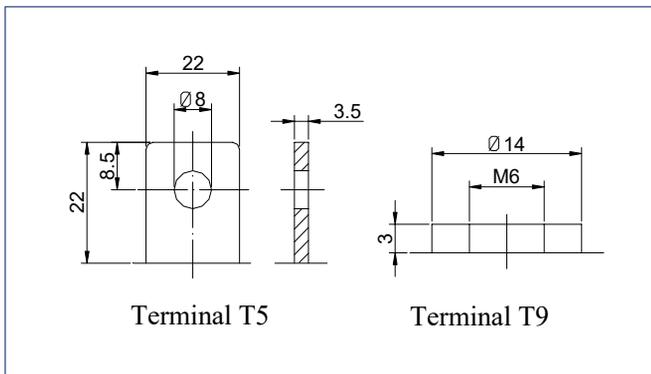
SPECIFICATIONS

Model	VT55-12	
Nominal Voltage	12V	
Rated capacity (20 hour rate)	55Ah	
Dimensions	Length	229±2mm(9.02inch)
	Width	138±2mm(5.43inch)
	Height	208±2mm(8.19inch)
	Total Height	T5: 230±2mm (9.06inch)
T9: 211±2mm (8.31inch)		
Approx. Weight	15 kg(35.2 lbs)±4%	

OUTER DIMENSIONS (MM)



TERMINAL TYPE (MM)



CHARACTERISTICS

Capacity (25 °C)	10HR(10.2V)	55Ah
	5HR(10.5V)	43.7Ah
	1HR(9.60V)	31Ah
Terminal type		T5/T9
Internal resistance (Fully charged,25 °C)		Approx.7.5m 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		15A
Terminal material		Copper
Maximum discharge current		500A(5 sec.)
Designed floating life(20°C)		12 years

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

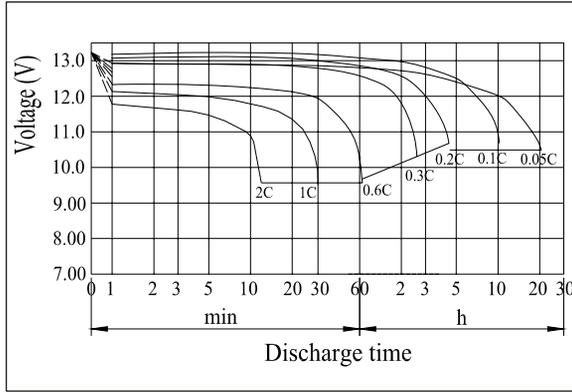
F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	105	82.5	50.0	31.0	18.3	12.8	10.5	0.93	6.12	5.09	2.67
9.90V	102	80.5	49.0	30.5	18.2	12.7	10.4	0.87	6.08	5.08	2.67
10.2V	97.7	77.6	47.5	29.8	18.0	12.6	10.3	8.81	6.04	5.07	2.66
10.5V	93.5	74.9	46.4	29.2	17.7	12.5	10.3	8.75	6.00	5.04	2.64
10.8V	88.2	71.0	44.7	28.3	17.3	12.1	9.94	8.49	5.82	5.00	2.63

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

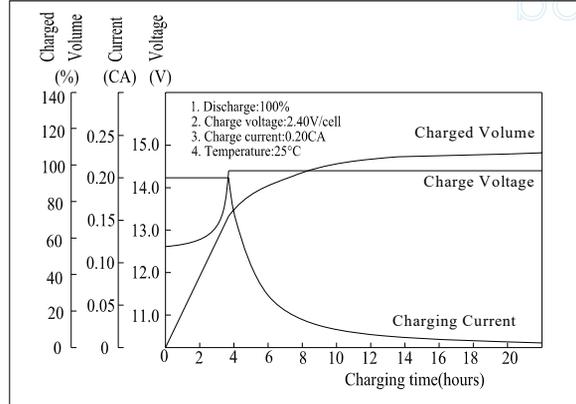
F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1134	906	561	353	212	150	123	105	72.7	60.8	32.1
9.90V	1100	884	550	348	210	149	122	105	72.3	60.7	32.0
10.2V	1055	851	533	339	208	148	121	104	71.8	60.5	31.9
10.5V	1009	823	520	333	205	147	121	103	71.3	60.1	31.7
10.8V	953	779	501	322	200	143	117	100	69.1	59.7	31.5

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

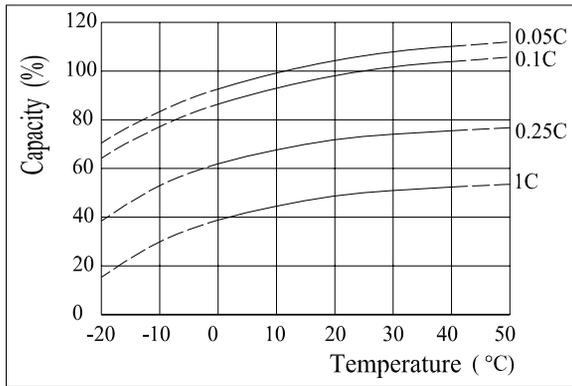
DISCHARGE CHARACTERISTICS (25°C)



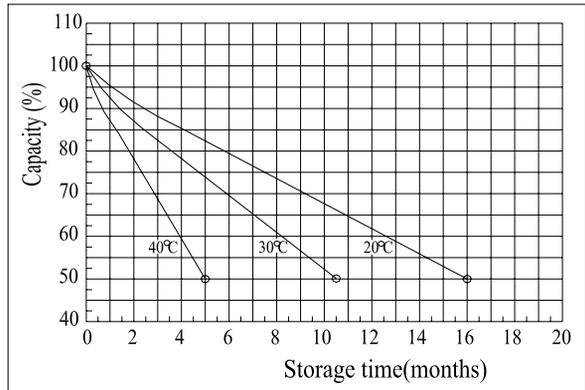
CHARGING CHARACTERISTICS (25°C)



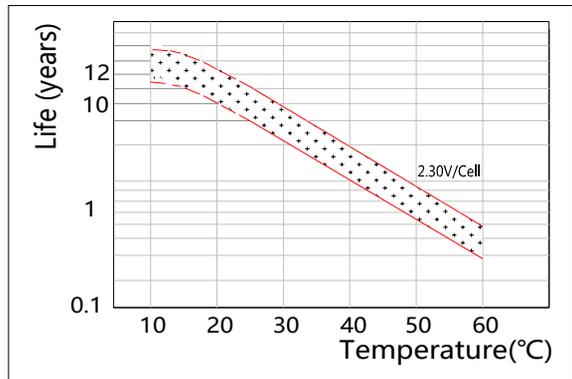
TEMPERATURE EFFECTS ON CAPACITY



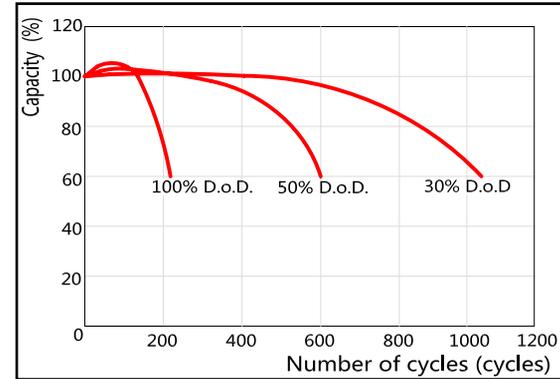
SELF-DISCHARGE CHARACTERISTICS



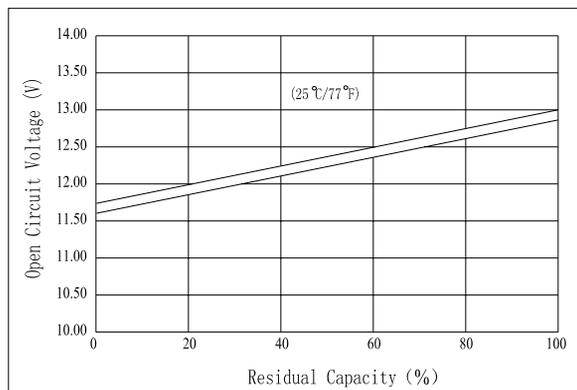
FLOATING LIFE ON TEMPERATURE



CYCLE LIFE ON D.O.D (25°C)



THE RELATIONSHIP FOR OPEN CIRCUIT VOLTAGE AND RESIDUAL CAPACITY (25°C)



THE RELATIONSHIP FOR CHARGING VOLTAGE AND TEMPERATURE

