

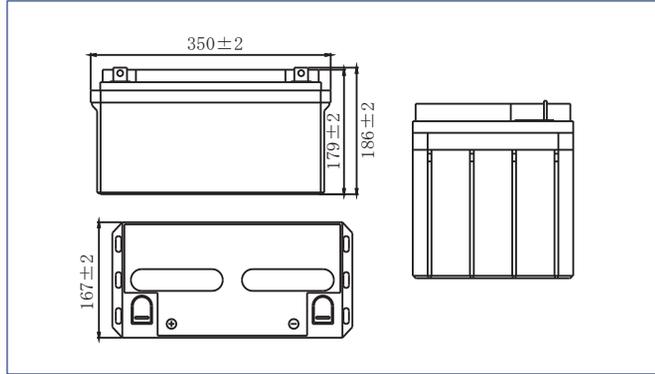
12V
65AH

viotech
battery

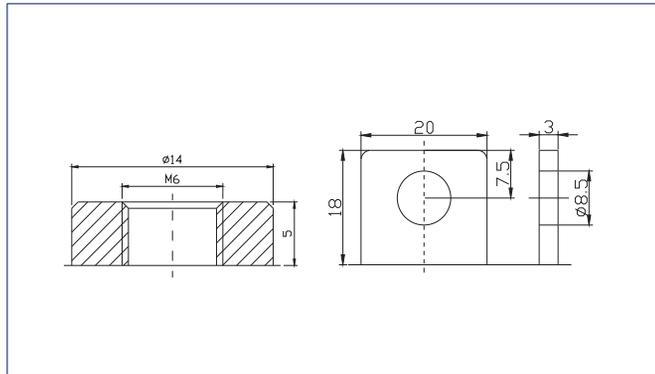
SPECIFICATIONS

Model	VT65-12	
Nominal Voltage	12V	
Rated capacity (20 hour rate)	65Ah	
Dimensions	Length	350±2mm(13.78inch)
	Width	167±2mm(6.57inch)
	Height	179±2mm(7.05inch)
	Total Height	T9: 179±2mm (7.05inch)
Approx. Weight	18.5kg(40.7lbs)±4%	

OUTER DIMENSIONS (MM)



TERMINAL TYPE (MM)



CHARACTERISTICS

Capacity (25 °C)	10HR(10.8V)	65Ah
	5HR(10.5V)	55.6Ah
	1HR(9.60V)	38.7Ah
Terminal type		T9/T5
Internal resistance (Fully charged,25 °C)		Approx.7.0m 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°C± 5°C)
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)		13.50 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.50 to 14.90V Temperature compensation: -30mV/°C
Maximum charging current		20A
Terminal material		Copper
Maximum discharge current		650A(5 sec.)
Designed floating life(20°C)		12 years

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

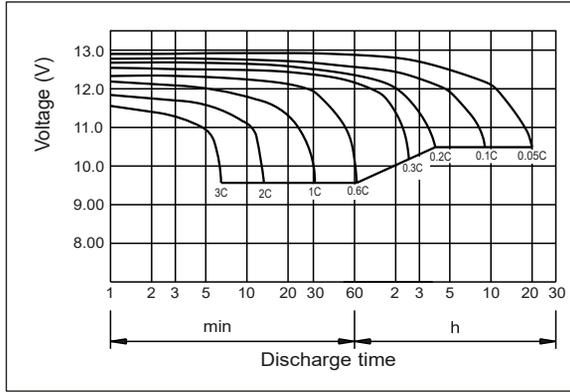
FV/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	218.00	130	101.7	62.4	38.7	23.1	16.1	13.2	11.37	7.80	6.54	3.44
9.90V	213.00	125	99.8	61.2	38.1	22.9	16.0	13.1	11.27	7.75	6.51	3.44
10.2V	203.00	121	96.0	59.3	37.2	22.7	15.9	13.0	11.27	7.69	6.49	3.43
10.5V	194.00	115.0	92.5	57.9	36.4	22.3	15.8	12.9	11.17	7.64	6.44	3.41
10.8V	184.00	109.3	87.6	55.7	35.3	21.8	15.3	12.5	10.78	7.42	6.42	3.38

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

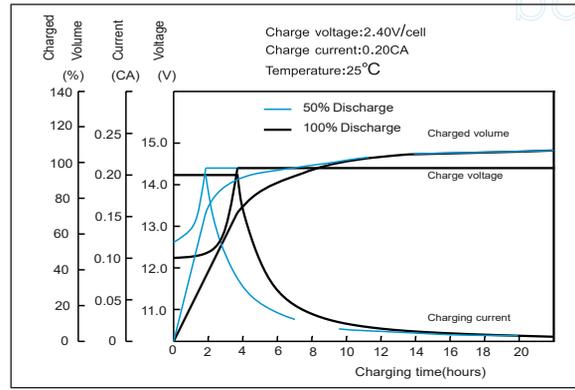
FV/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	2365	1400	1119	700	441	267	189	155	134	92.6	78.3	41.3
9.90V	2310	1359	1092	686	435	265	188	154	133	92.1	78.0	41.2
10.2V	2190	1302	1052	665	423	263	186	153	132	91.4	77.4	41.1
10.5V	2100	1246	1016	649	415	259	185	152	131	90.8	76.8	40.8
10.8V	1985	1176	962	625	402	252	179	147	127	88.1	76.3	40.6

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

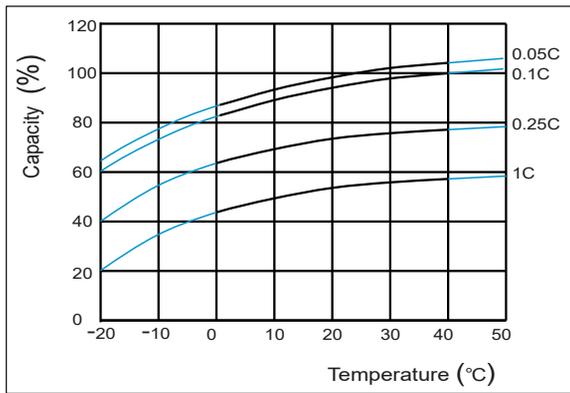
DISCHARGE CHARACTERISTICS (25°C)



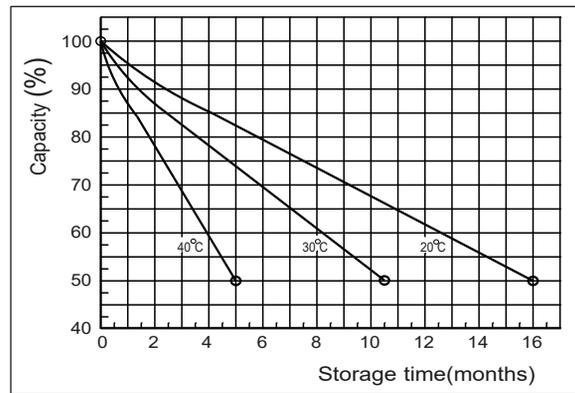
CHARGING CHARACTERISTICS (25°C)



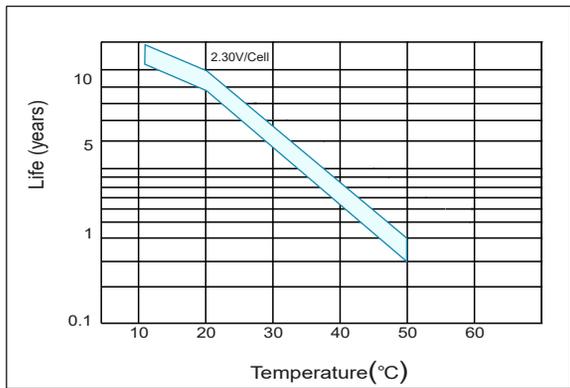
TEMPERATURE EFFECTS ON CAPACITY



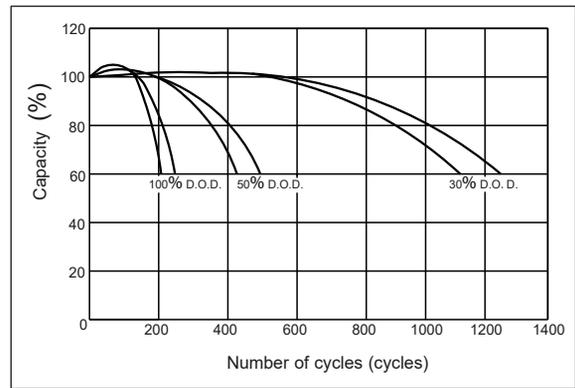
SELF-DISCHARGE CHARACTERISTICS



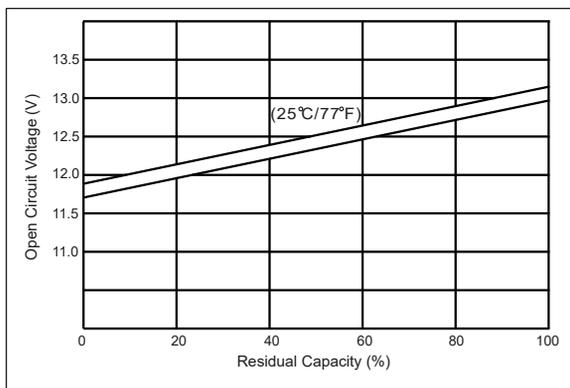
FLOATING LIFE ON TEMPERATURE



CYCLE LIFE ON D.O.D (25°C)



THE RELATIONSHIP FOR OCV AND CAPACITY (25°C)



THE RELATIONSHIP FOR CHARGING VOLTAGE AND TEMPERATURE

