

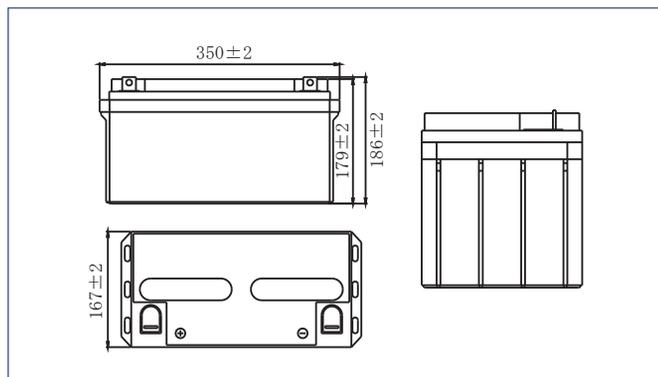
12V
80AH

viotech
battery

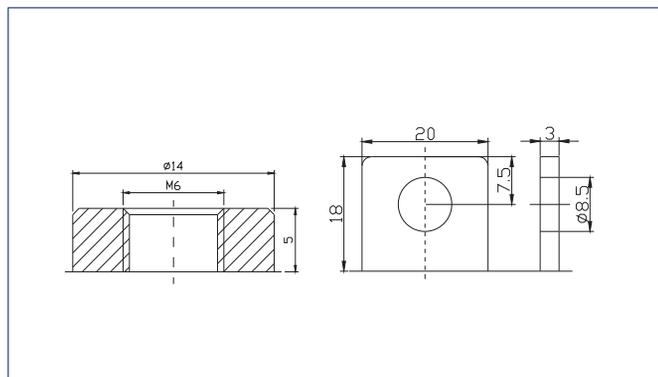
SPECIFICATIONS

Model	VT80-12	
Nominal Voltage	12V	
Rated capacity (20 hour rate)	80Ah	
Dimensions	Length	350±2mm(13.78inch)
	Width	167±2mm(6.57inch)
	Height	179±2mm(7.05inch)
	Total Height	T5: 186±2mm (7.32inch)
T9: 179±2mm (7.05inch)		
Approx. Weight	22.5kg(49.4lbs)±4%	

OUTER DIMENSIONS (MM)



TERMINAL TYPE (MM)



CHARACTERISTICS

Capacity (25 °C)	10HR(10.8V)	80Ah
	5HR(10.5V)	68.5Ah
	1HR(9.60V)	48.4Ah
Terminal type		T5/T9
Internal resistance (Fully charged,25 °C)		Approx.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°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		23.4A
Terminal material		Copper
Maximum discharge current		750A(5 sec.)
Designed floating life(20°C)		12 years

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

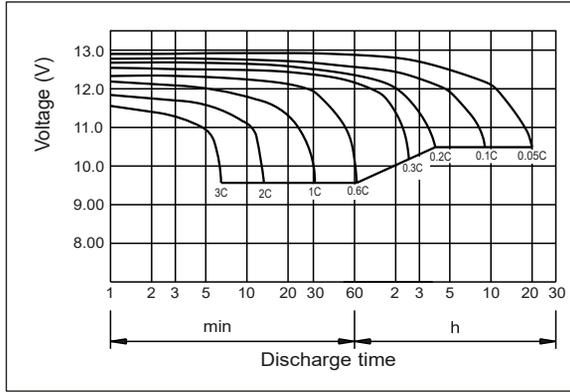
F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	267.00	164	129	78.0	48.4	28.5	19.9	16.3	13.9	9.55	8.06	4.17
9.90V	262.00	159	126	76.4	47.6	28.3	19.8	16.2	13.8	9.49	8.04	4.16
10.2V	251.00	152	121	74.1	46.4	28.1	19.6	16.1	13.7	9.43	8.02	4.15
10.5V	242.00	146	117	72.3	45.5	27.7	19.5	16.0	13.7	9.36	8.02	4.12
10.8V	230.00	138	111	69.7	44.1	27.0	18.9	15.5	13.2	9.08	8.00	4.10

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

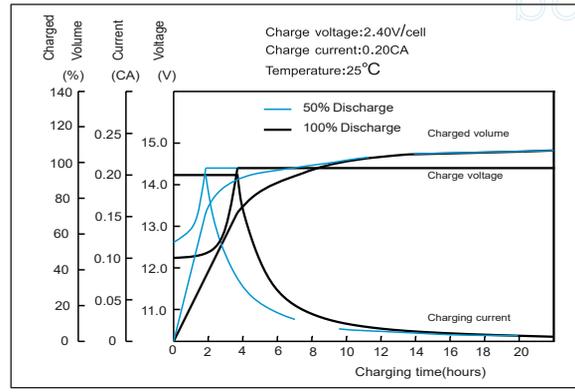
F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	2835	1769	1413	875	551	330	234	192	165	113	93.8	50.0
9.90V	2774	1716	1379	858	543	328	233	191	164	113	93.6	49.9
10.2V	2460	1645	1328	831	529	325	231	189	162	112	93.3	49.8
10.5V	2540	1574	1283	811	519	320	229	188	161	111	92.8	49.5
10.8V	2400	1486	1215	782	503	312	222	182	157	108	92.1	49.1

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

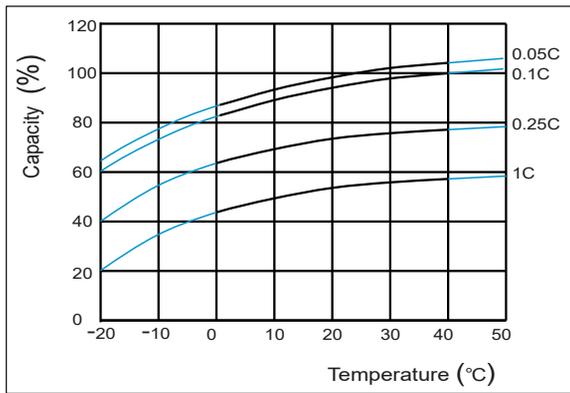
DISCHARGE CHARACTERISTICS (25°C)



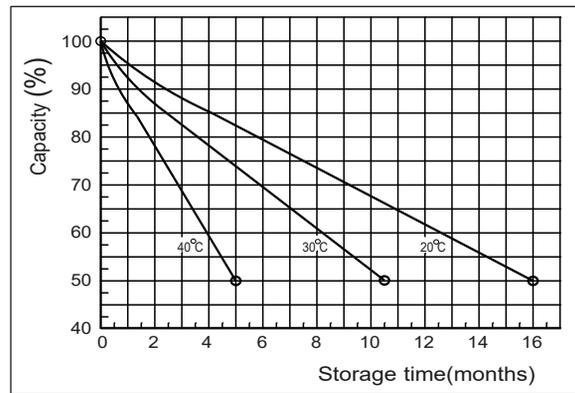
CHARGING CHARACTERISTICS (25°C)



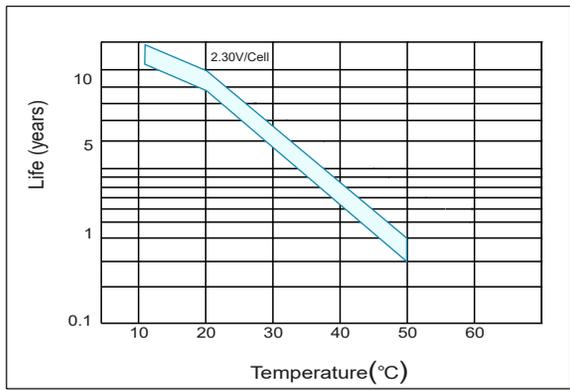
TEMPERATURE EFFECTS ON CAPACITY



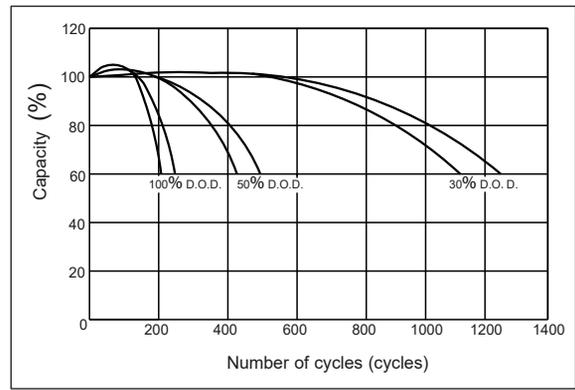
SELF-DISCHARGE CHARACTERISTICS



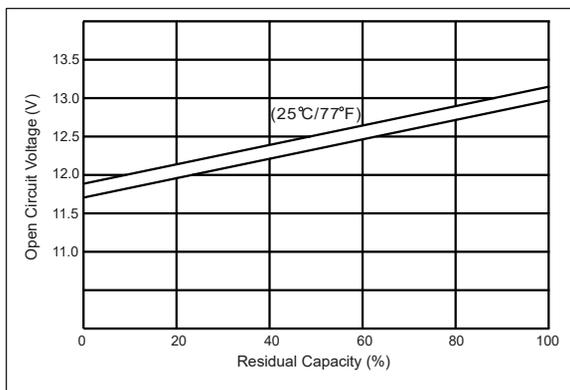
FLOATING LIFE ON TEMPERATURE



CYCLE LIFE ON D.O.D (25°C)



THE RELATIONSHIP FOR OCV AND CAPACITY (25°C)



THE RELATIONSHIP FOR CHARGING VOLTAGE AND TEMPERATURE

