Virtec Battery

Phycical Specifications

Brand	Virtec
Weight	1.5 kg
Length	90±1.5 mm
Width	70±1.5 mm
Height	100± 2 mm
Technology	AGM
Warranty	1 Year
Terminals	

12V 5Ah virtec Battery VT1250

Specifications

Model		VT1250
Normal Voltage	12 V (6CELLS IN SERIES)	
Normal Capacity (C20)	5 Ah 12 V (C_{20} 1.75V/cell)	
Terminal Type	Standard Terminal	T1/T2
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	UL94:VO
Rated Capacity	7.00 AH/0.350A	(20hr, 1.80V/cell, 25°C / 77°F)
	6.51 AH/0.653A	(10hr, 1.80V/cell, 25°C / 77°F)
	6.00 AH/1.20A	(5hr, 1.75V/cell, 25°C / 77°F)
	5.37 AH/1.79A	(3hr, 1.75V/cell, 25°C / 77°F)
	4.55 AH/4.55A	(1hr, 1.60V/cell, 25°C / 77°F)
Max Discharge Current	67.5A (5s)	
Internal Resistance	Approx 40mΩ	
Discharge Characteristics	Operating Temp. Range	Discharge: -15 ~ 50°C (5 ~ 122°F)
		Charge: 0 ~ 40°C (5 ~ 104°F)
		Storage: -15 ~ 40°C (5 ~ 104°F)
	Nominal Operating Temp.Range	25 ± 3°C (77 ± 5°F)
	Cycle Use	Initial Charging Current less than 1.62A.Voltage 14.4V ~ 15.0V at 25 C Temp. Coefficient -30mV/°C
	Standby Use	No limit on Initial Charging Current Voltage 13.5V ~ 13.8V at 25 C Temp. Coefficient -20mV/°C
	Capacity affected by Temperature	40°C (104°F) 103%
		25°C (77°F) 100%
		0°C (32°F) 86%
Design Floating Life at 20°C	3-5 Years	
Self Discharge	Virtec batteries may be stored for up to 6 months at 25°C(°77F) and then a refresh charge is required. For higher temperatures the time interval will be shorter.	

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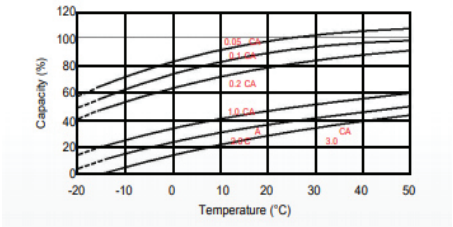
Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5 min	10 min	15 min	20 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	10.3	7.90	6.54	5.66	4.37	3.22	2.72	1.61	1.26	1.02	0.83	0.72	0.583	0.487	0.267
1.80V/cell	13.8	10.1	7.90	6.69	5.16	3.75	3.04	1.75	1.35	1.09	0.89	0.78	0.618	0.502	0.270
1.75V/cell	15.6	11.1	8.63	7.19	5.36	3.89	3.18	1.82	1.38	1.12	0.92	0.80	0.629	0.516	0.273
1.70V/cell	17.1	12.1	9.22	7.56	5.58	4.04	3.28	1.86	1.42	1.14	0.94	0.81	0.638	0.526	0.278
1.65V/cell	18.9	13.0	9.80	8.03	5.88	4.15	3.36	1.89	1.48	1.18	0.97	0.83	0.648	0.537	0.281
1.60V/cell	20.8	14.2	10.5	8.55	6.21	4.32	3.39	1.97	1.52	1.22	1.00	0.85	0.654	0.543	0.283

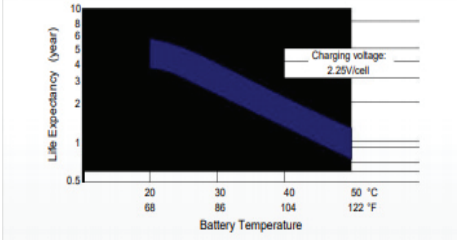
Constant Power Discharge (Watts) at 25°C (77°F)

F.V/Time	5 min	10 min	15 min	20 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	18.8	14.6	12.2	10.7	8.34	6.19	5.24	3.12	2.45	2.00	1.63	1.42	1.151	0.964	0.530
1.80V/cell	25.0	18.4	14.5	12.4	9.68	7.15	5.84	3.38	2.62	2.12	1.74	1.52	1.217	0.992	0.534
1.75V/cell	27.6	19.9	15.7	13.2	9.97	7.35	6.08	3.49	2.66	2.16	1.79	1.55	1.235	1.018	0.539
1.70V/cell	29.5	21.2	16.5	13.8	10.3	7.61	6.25	3.57	2.73	2.21	1.83	1.59	1.252	1.037	0.548
1.65V/cell	32.1	22.7	17.4	14.5	10.8	7.73	6.35	3.60	2.83	2.28	1.87	1.61	1.268	1.057	0.555
1.60V/cell	34.6	24.1	18.3	15.3	11.3	8.01	6.38	3.74	2.90	2.35	1.93	1.64	1.278	1.067	0.557

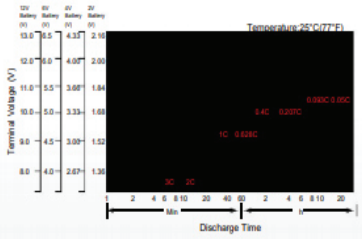
Temperature Effects in Relation to Battery Capacity



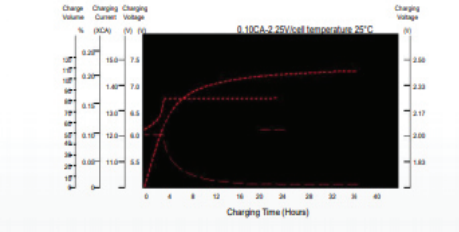
Effect of Temperature on Long Term Float Life



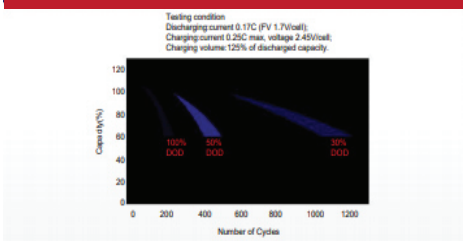
Discharge Characteristics



Float Charging Characteristics



Cycle Life in Relation to Depth of Discharage



Self Discharge Characteristics