Sony US18650VTC5A 2600mAh (Green)



Official specifications:

- Nominal capacity: 2600mAh
 Rated capacity: 2500mAh
 Maximum continuous discharge current: 35A with 80° cut-off
 Nominal voltage: 3.6V
 Internal Impedance: 13.0mOhm typical at 1kHz
 Cycle performance: 300 cycles to 70% with 10A discharges.
 Standard charge current: 2.5A
 Maximum charge current: 6A
 Charge voltage: 4.2V +/-0.05V

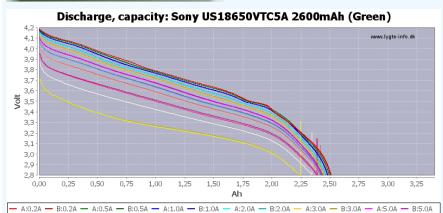
Name	Sony US18650VTC5 A 2600mAh (Green)					
Cell	Sony US18650 VTC5A					
Supplier	eu.nkon.nl				Date:	10-2016
Size	Weight:	47.9 g	Length:	65.0 mm	Diameter:	18.3 mm
Info	Top:	flat	Bottom:	metal	Rated A:	35
Test condition	Charge voltage:		4.2	Termination current:		0,03
Test current (A)	0,2	0,5	1	2	3	5
Measured capacity (Ah)	2,508	2,495	2,480	2,462	2,447	2,435
Measured energy (Wh)	9,211	9,152	9,071	8,944	8,840	8,703
PCB protection trip current (A)	NA					
Calculated internal resistance (ohm)	0,04					

A very high current cell with fairly high capacity.

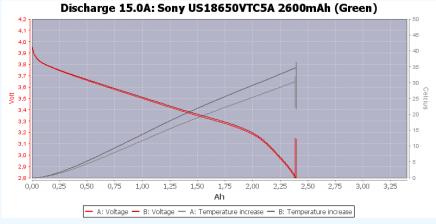


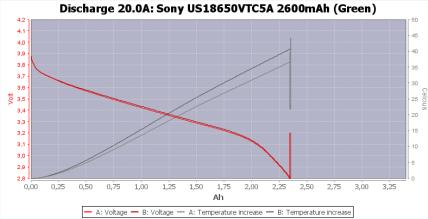


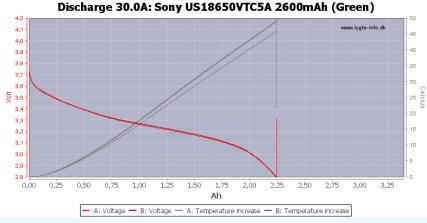
- A:7.0A - B:7.0A - A:10.0A - B:10.0A - A:15.0A - B:15.0A



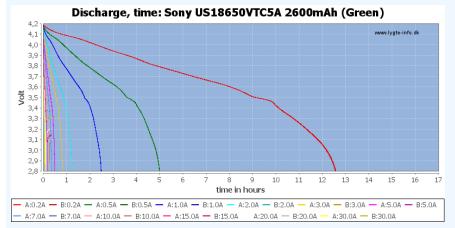
A:20.0A — B:20.0A — A:30.0A — B:30.0A

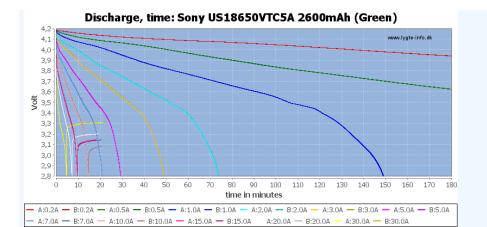


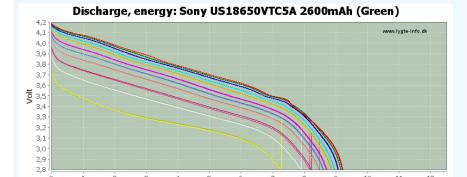




The cell was very close to the cut-off temperature at the end of the 30A discharge.

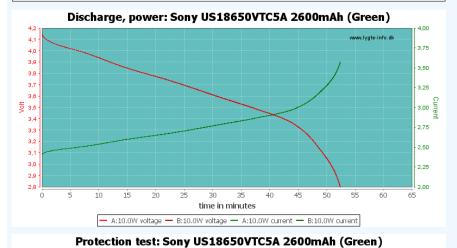


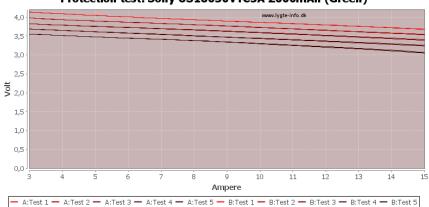


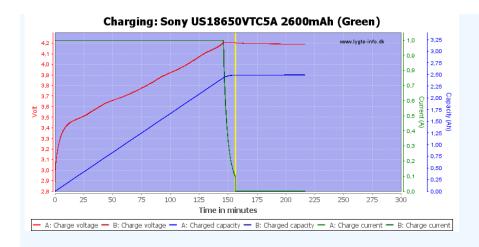


- A:0.2A - B:0.2A - A:0.5A - B:0.5A - A:1.0A - B:1.0A - A:2.0A - B:2.0A - A:3.0A - B:3.0A - A:5.0A - B:5.0A - A:7.0A - B:7.0A - A:10.0A - B:10.0A - A:15.0A - B:15.0A - A:20.0A - B:20.0A - A:30.0A - B:30.0A

Wh







Conclusion

The upgrade from VTC5 to VTC5**A** did not add more capacity to the cell, but the voltage is slightly higher when drawing current. As usual the Sony cells are very good.

Notes and links

How is the test done and how to read the charts How is a protected Lilon battery constructed More about button top and flat top batteries Compare to 18650 and other batteries