# LG 18650 HG2 3000mAh (Brown)



#### Official specifications:

- Nominal Capacity: 3000mAh
  Nominal voltage: 3.50V
  Standard charge: 1500mA, 4.2V, 50mA
  Max. charge voltage: 4.20V+/-0.05V
  Max. charge current: 4000mA
  Standard discharge: 500mA down to 2.5V
  Fast discharge: 10000mA, 20000mA down to 2.5V
  Max. charge untimuous discharge: 20000mA
  Cycle life: 300 at 10A, 200 at 20A both with 4A charge, ramaning capacity minimum 70%
  Weight: 47.0g
  Operating temperature: charge 0°C ~ 50°C, discharge: -20°C ~ 75°C
  Storage temperature: 1 month: -20°C ~ 60°C, 3 month: -20°C ~ 45°C, 1 year: -20°C ~ 20°C

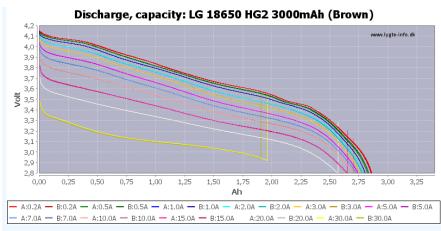
Name	LG 18650 HG2 3000mAh (Brown)					
Cell	LGDBHG21865					
Supplier	eu.nkon.nl				1	
Size	Weight:	45.1 g	Length:	65 mm	Diameter:	18.3 mm
Info	Top:	flat	Bottom:	metal	Rated A:	20
Test condition	Charge voltage:		4,2	Termination current:		0,1
Test current (A)	0,2	0,5	1	2	3	5
Measured capacity (Ah)	2,858	2,829	2,804	2,784	2,761	2,743
Measured energy (Wh)	10,499	10,363	10,221	10,052	9,883	9,676
PCB protection trip current (A)	NA					
Calculated internal resistance (ohm)	0,05					

A high current and high capacity cell, that is rated for high current use.



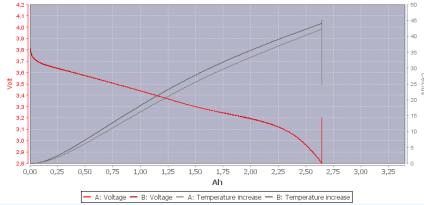




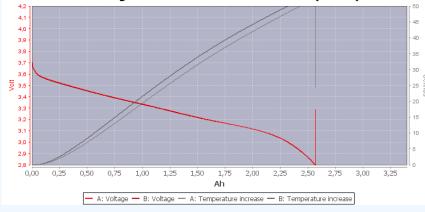


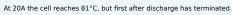
The discharge curves tracks perfectly.

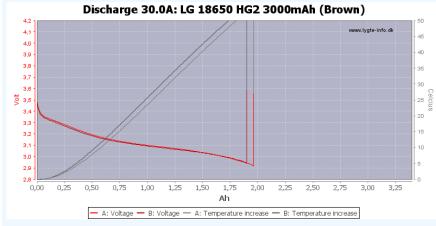
Discharge 15.0A: LG 18650 HG2 3000mAh (Brown)



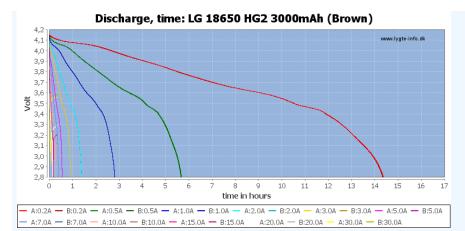
Discharge 20.0A: LG 18650 HG2 3000mAh (Brown)



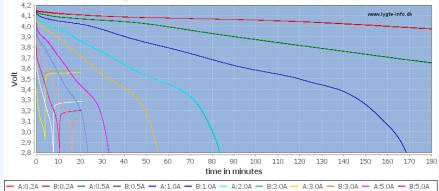


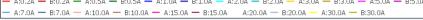


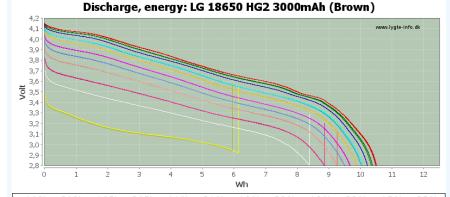
At 30A I terminated due to temperature, but the cell do reach 90°C after termination.



### Discharge, time: LG 18650 HG2 3000mAh (Brown)



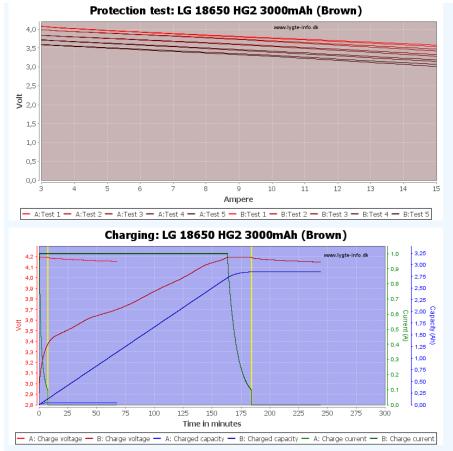




- A:0.2A - B:0.2A - A:0.5A - B:0.5A - A:1.0A - B:1.0A - A:2.0A - B:2.0A - A:3.0A - B:3.0A - A:5.0A - B:5.0A - A:7.0A - B:7.0A - A:10.0A - B:10.0A - A:15.0A - B:15.0A - A:20.0A - B:20.0A - A:30.0A - B:30.0A

4,2 4,00 www.lygte-info.dk 4,1 3,75 4,0 3,9 3,50 3,8 3,7 3,25 3,6 ₹ 3,5 3,00 3,4 2,75 3,3 3.2 2,50 3,1 3,0 2,25 2,9 2,8 2,00 ò 5 10 15 20 25 30 35 40 45 50 55 60 65 time in minutes - A:10.0W voltage - B:10.0W voltage - A:10.0W current - B:10.0W current

Discharge, power: LG 18650 HG2 3000mAh (Brown)



Ignore the A charge curve, there was a glitch on my equipment.

## Conclusion

This is a very good high current cell and it is rated to be used at high charge/discharge rates.

## 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