

## Summary of the Maverick 150Ah Gel Deep Cycle Product, tested in January 2020



**This test and report is prepared by a legitimate testing facility. Information is available upon request.**

Test method:	AS 2149-2003
Test item description:	Maverick 150Ah Gel Deep Cycle - 1 sample
Test reference number:	20-006
Testing period:	13th to 28th, January 2020
Report date:	10th February 2020

### Summary

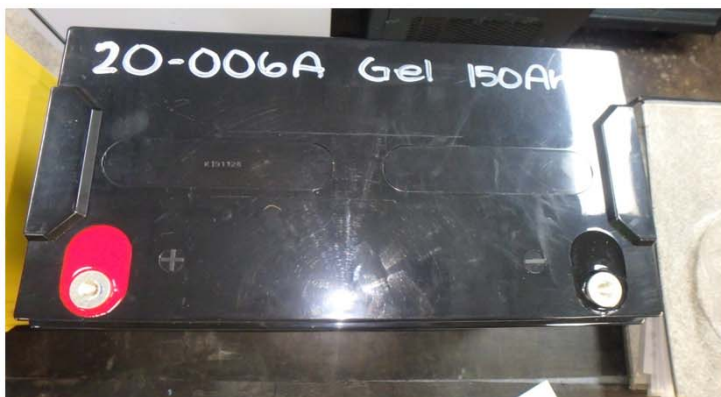
1. Product was labelled as Gel but it is actually AGM battery.
2. No other label except the face label branded as "MAVERICK POWER Gel".  
No capacity information label on the product.
3. Four (4) plates in each cell: 2 positive and 2 negative plates.
4. Glass has been used as spacer & weighted total 11.76Kg. This represents 52.5% of the total battery weight.
5. Tests showed 23Ah, which is 85% below 'advertised' capacity.

### Product Information

Battery Brand			Maverick Power
Battery Type			Labelled as Gel
Capacity	C20	Ah	150Ah (On Website)
Country of Origin			No Information
Manufacturing Code			K191128
Dim L X W X H (TH)			329 x 172 x 220
Warranty Period			No Information
Wet Weight			22.4
OCV			12.98
Internal Resistance			13.5

### Capacity Test data

Test Item	Spec, Ah	Achieved Capacity, Ah			% to Rating	Comment
		Test 1	Test 2	Average		
C20	150	24	22	23	15%	Failed
C100	165 (Estimated)	22	-	22	-	Due to hour rate not clearly specified, 100-hour was also tested for verification.



Teardown data								
Venting		-	Gang of 2 X 3 Cells (See photo)					
Flame Arrestor		mm	No flame arrestor present					
Cells			Cell 01	Cell 02	Cell 03	Cell 04	Cell 05	Cell 06
Electrolyte	SG at 25°C	-	1.303	Not Tested				
+ve/-ve			+ve		-ve			
Plates Per Cell		plates	2		2			
Cast-on Strap Thickness		mm	5.3		5.2			
Post Diameter		mm	13.0		12.7			
Separator	Type	-	Absorbent glass mat wrapped on each positive plate					
	Overall Thickness	mm	1.63					
	Height	mm	163 (total length: 326mm)					
	Width	mm	162					
Plate	Lug Location	-	Centre		Centre			
	Thickness	mm	2.44		1.90			
	Height	mm	154.3		153.6			
	Width	mm	133		133			
	Weight (Dry)	g	232		169			
Grid	Design	-	Cast		Cast			
	Thickness	mm	1.98		1.39			
	Weight (Dry)	g	68.6		48			
Group	Thickness	mm	17.5					
	Height	mm	171.7					
Cell	Overall Width	mm	49.9					
Hotmelt Adhesive		-	No hotmelt present					
Inter-cell Weld (ICW)		mm	Over-partition welding					
Spacer	Glass	mm	147 x 158 x 5mm / 280g each/ 7 pieces per cell					

