

Anker 20,000mAh Power Bank – Field Test Data

Summary

In daily use, this power bank will charge an iPhone 16 Pro around 2.5–3 times, an Apple Watch Ultra 3 well over a dozen times, a MacBook Air for less than a full charge, and an iPad Air around one and a half times.

In practice, the final ~10% of the battery is not meaningfully usable.

Test 1									
iPhone not in flight mode									
Date	iPhone starting %	iPhone ending %	Anker starting %	Anker ending %	iPhone Gain	Anker Loss	Anker : Device	Notes	
12 April 2026	28	90	100	77	62	23	2.70	Overnight	
13 April 2026	28	90	77	56	62	21	2.95	Overnight	
14 April 2026	27	90	56	34	63	22	2.86	Overnight	
15 April 2026	34	90	34	9	56	25	2.24	Overnight	
16 April 2026	31	30	9	0	-1	9	-0.11	Failed to charge	
Statistics exclude final discharge cycle					Total Gain / Loss	243	91	2.69	Average capacity ratio

Conclusion – In real-world use, the Anker kept my iPhone going for about four days. On average, each 1% of battery delivered around 2.7% to the phone, equating to roughly two and a half full charges overall.

Test 2									
iPhone in flight mode									
Date	iPhone starting %	iPhone ending %	Anker starting %	Anker ending %	iPhone Gain	Anker Loss	Anker : Device	Notes	
16 April 2026	17	90	100	78	73	22	3.32	Overnight	
17 April 2026	7	90	78	58	83	20	4.15	Not overnight	
18 April 2026	14	90	58	35	76	23	3.30	Overnight	
19 April 2026	18	90	35	17	72	18	4.00	Not overnight	
20 April 2026	48	90	17	6	42	11	3.82	Not overnight	
20 April 2026	42	47	6	0	5	6	0.83	Partial failure	
Statistics exclude final discharge cycle					Total Gain / Loss	346	94	3.72	Average capacity ratio

Conclusion – In flight mode, I ended up topping up my iPhone around five times over several days. On average, each 1% of battery delivered ~3.7% to the phone, equating to roughly 3 full charges overall. This represents an efficiency improvement of about 35–40% compared to normal use.

Test 3								
Apple Watch Ultra 3 not in flight mode								
Date	Device starting %	Device ending %	Anker starting %	Anker ending %	Watch Gain	Anker Loss	Anker : Device	Notes
21 April 2026	27	100	63	58	73	5	14.60	Not overnight

Conclusion – Charging the Apple Watch had a negligible impact on the battery. In my test, each 1% of the Anker delivered roughly 14–15% to the watch, meaning it could comfortably recharge it well over a dozen times.

Test 4								
MacBook Air M4 15" not in flight mode								
Date	Device starting %	Device ending %	Anker starting %	Anker ending %	Mac Gain	Anker Loss	Anker : Device	Notes
21 April 2026	18	80	100	23	62	77	0.81	Mac system info shows charging at 65W

Conclusion – The MacBook gained less than 1% of charge for every 1% of the Anker used. In real terms, that's enough for a useful top-up on the go, but not a full recharge.

Test 5								
iPad Air 5th gen not in flight mode								
Date	Device starting %	Device ending %	Anker starting %	Anker ending %	iPad Gain	Anker Loss	Anker : Device	Notes
21 April 2026	32	100	100	64	68	36	1.89	

Conclusion – The iPad gained around 1.8–1.9% of charge for every 1% of the Anker used, equating to roughly one and a half to two full charges overall.