Boost productivity with HP Notebook PCs and Mobile Workstation PCs powered by AMD Ryzen™ processors

Invest in devices that meet (and exceed) pressing needs with minimal workflow interruptions
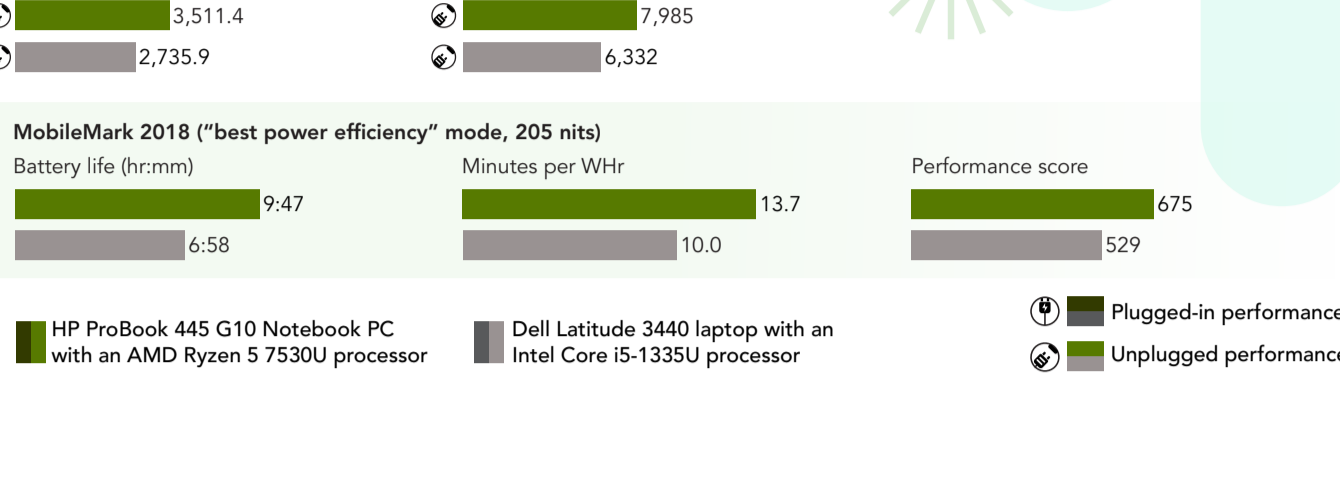
We performed multiple hands-on comparisons of AMD Ryzen™ processor-powered HP G10 Notebook PCs and Mobile Workstation PCs against Intel® Core™ processor-powered Dell™ systems.

HP ProBook 445 G10

The HP ProBook 445, powered by the AMD Ryzen™ 5 7530U processor, is ideal for cost-conscious individuals and small businesses seeking high-performing systems for their teams. Whether you're running from home to coffee shop to office or trying to support your hybrid workforce, we saw strong performance and battery life scores with this system compared to a Dell competitor.
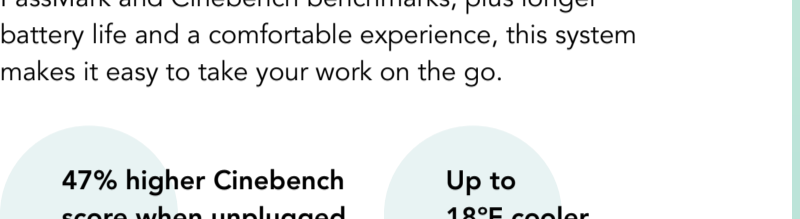
Up to 9 hr 47 min of battery life	Up to 28% higher overall PassMark score vs. Dell Latitude 3440	Similar to or higher Cinebench R23 score

PassMark PerformanceTest	Cinebench R23 multi-core
1,953.3	8,145
1,515.0	8,196
1,511.4	7,985
2,735.9	6,332

MobileMark 2018 ("best battery efficiency" mode, 205 nits)		Performance score
Battery life (hr:min)	Minutes per WHr	
9:47	13.7	675
6:58		

● Plugged-in performance   ● Unplugged performance

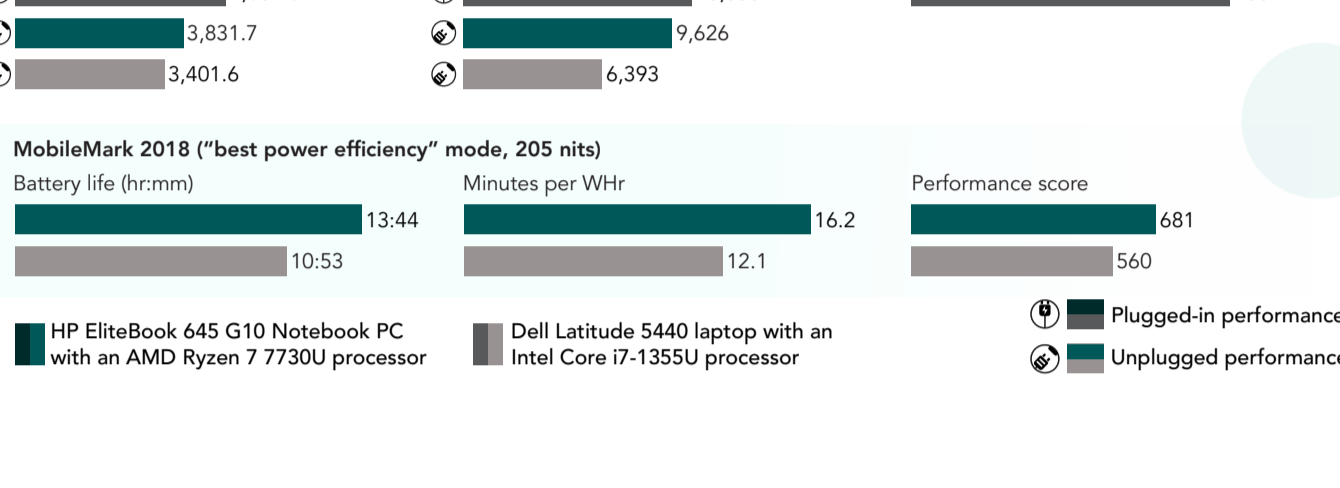| ■ HP ProBook 445 G10 Notebook PC with an AMD Ryzen 5 7530U processor	■ Dell Latitude 3440 laptop with an Intel Core i5-1335U processor

HP EliteBook 645 G10

Powered by the AMD Ryzen™ 7 7730U processor, the HP EliteBook 645 is the next step up for hybrid workers—and a great choice for mobile trailblazers handling heavier workloads. With performance boosts on the PassMark and Cinebench benchmarks, plus longer battery life and a comfortable experience, this system makes it easy to take your work on the go.
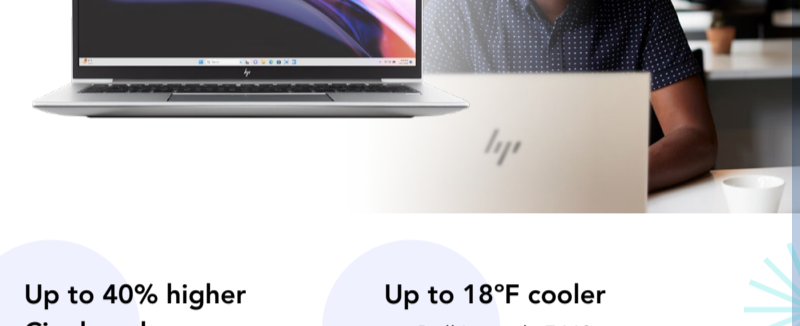
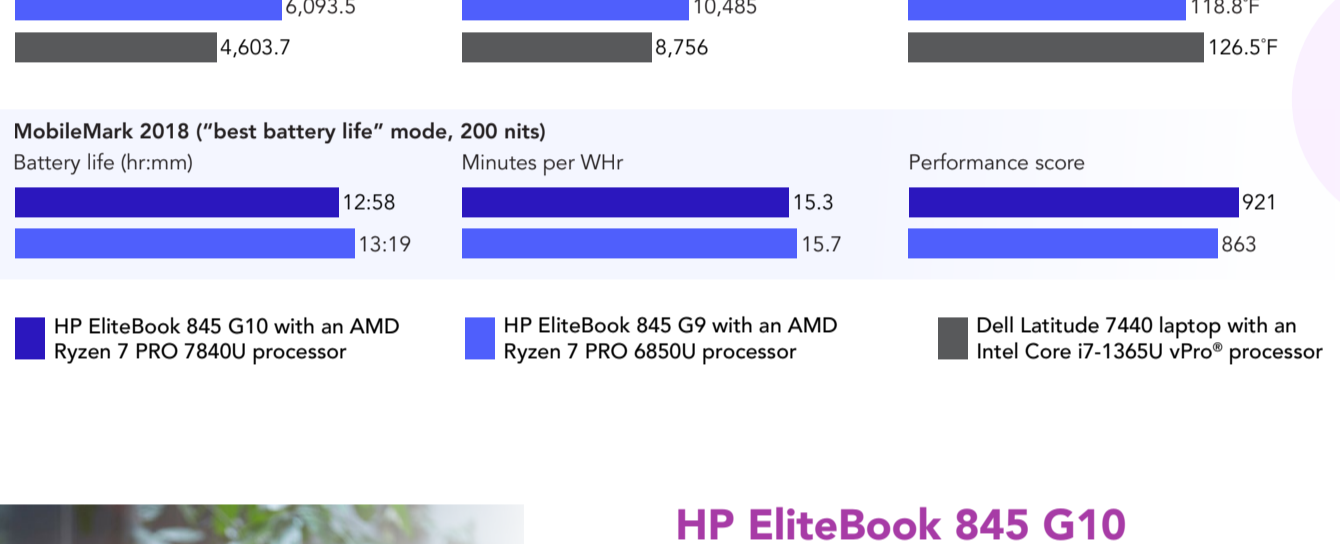| Up to 13 hr 44 min of battery life	25% higher overall PassMark score when unplugged vs. Dell Latitude 5440	47% higher Cinebench score when unplugged vs. Dell Latitude 5440	Up to 18°F cooler vs. Dell Latitude 5440

PassMark PerformanceTest	Cinebench R23 multi-core	Underside surface temperatures
4,277.0	9,672	118°F
3,801.8	10,533	136.1°F
3,831.7	7,626	
1,401.6	5,199	

MobileMark 2018 ("best battery efficiency" mode, 205 nits)		Performance score
Battery life (hr:min)	Minutes per WHr	
13:44	16.2	681
10:53	12.1	560

● Plugged-in performance   ● Unplugged performance

■ HP EliteBook 645 G10 Notebook PC with an AMD Ryzen 7 7730U processor	■ Dell Latitude 5440 laptop with an Intel Core i7-1355U processor

HP EliteBook 845 G10
with an AMD Ryzen™ 7 PRO 7840U processor

The HP EliteBook 845 with the AMD Ryzen™ 7 PRO 7840U processor is ideal for hybrid workers and a step up for mobile trailblazers who need both strong performance and great battery life. Delivering higher scores on PassMark and Cinebench than the EliteBook 645 or ProBook 445, the EliteBook 845 also offered over 12 hours of battery life and cooler underside temperatures than its predecessor (the HP EliteBook 845 G9) or a competitor (the Dell Latitude 7440).
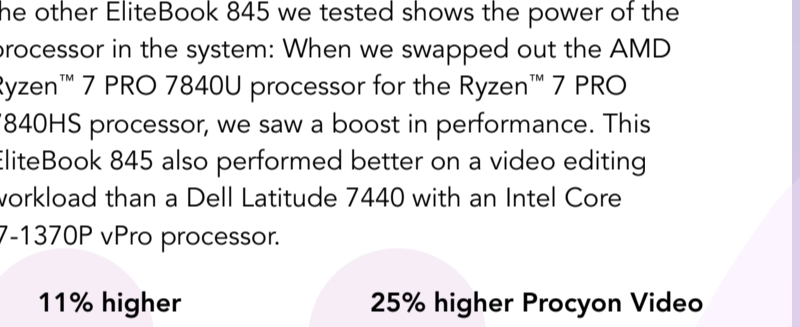
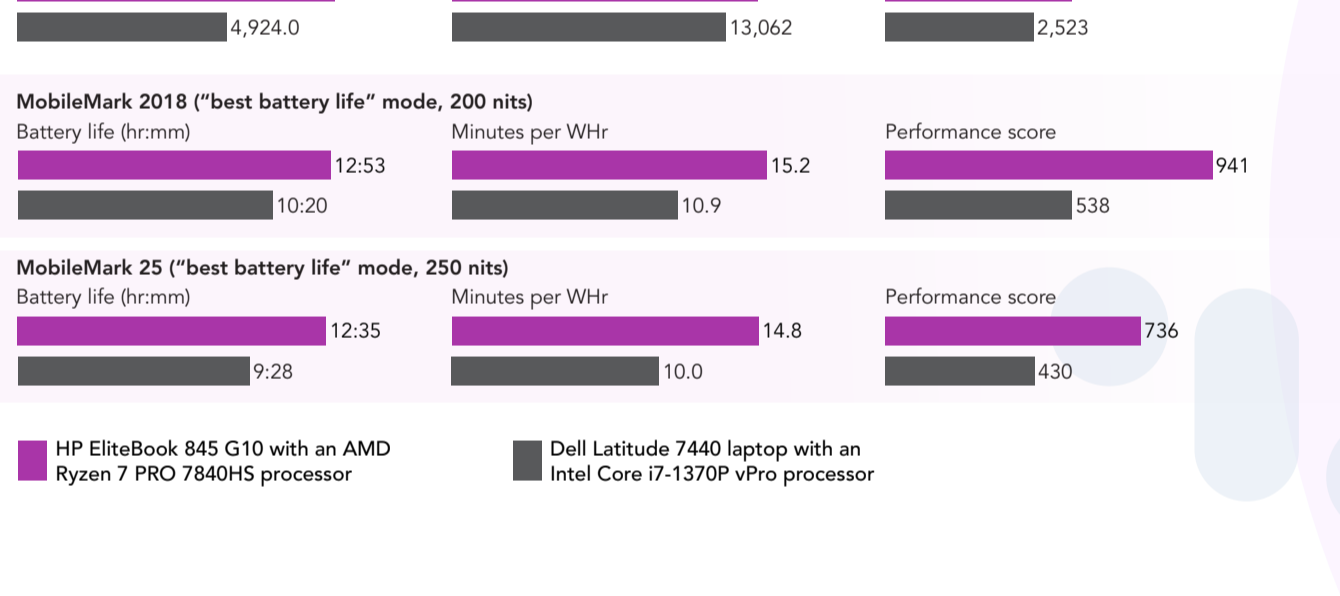| Up to 12 hours 58 min of battery life	Up to 56% higher overall PassMark score vs. Dell Latitude 7440	Up to 40% higher Cinebench score vs. Dell Latitude 7440	Up to 18°F cooler vs. Dell Latitude 7440

PassMark PerformanceTest	Cinebench R23 multi-core	Underside surface temperature
7,191.6	12,351	108.3°F
6,093.3	10,685	118.8°F
4,603.7	8,756	126.5°F

MobileMark 2018 ("best battery life" mode, 200 nits)		Performance score
Battery life (hr:min)	Minutes per WHr	
12:58	15.3	923
13:19	15.7	563

■ HP EliteBook 845 G10 with an AMD Ryzen 7 PRO 7840U processor	■ HP EliteBook 845 G9 with an AMD Ryzen 7 PRO 6850U processor	■ Dell Latitude 7440 laptop with an Intel Core i7-1365U vPro processor

HP EliteBook 845 G10
with an AMD Ryzen™ 7 PRO 7840HS processor

Perfect for road warriors and a great choice for specialists who require high performance, the HP EliteBook 845 with AMD Ryzen™ 7 PRO 7840HS processor delivered strong benchmark scores and nearly 13 hours of battery life. The increase in PassMark and Cinebench scores compared to the other EliteBook 845 we tested shows the power of the processor in the system: When we swapped out the AMD Ryzen™ 7 PRO 7840U processor for the Ryzen™ 7 PRO 7840HS processor, we saw a boost in performance. The EliteBook 845 also performed better on a video editing workload than a Dell Latitude 7440 with an Intel Core i7-1370P vPro processor.
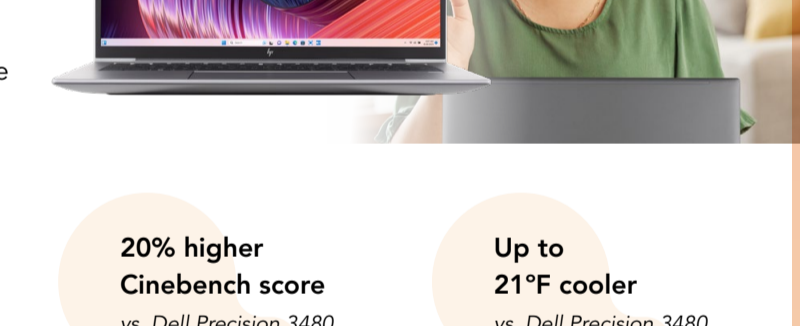
Up to 12 hours 53 min of battery life	51% higher overall PassMark score vs. Dell Latitude 7440	11% higher Cinebench score vs. Dell Latitude 7440	25% higher Procyon Video Editing score vs. Dell Latitude 7440

PassMark PerformanceTest	Cinebench R23 multi-core	Procyon Video Editing score
7,447.8	14,572	3,178
4,924.0	13,062	2,523

MobileMark 2018 ("best battery life" mode, 200 nits)		Performance score
Battery life (hr:min)	Minutes per WHr	
12:53	15.2	941
10:20	14.0	538

MobileMark 25 ("best battery life" mode, 250 nits)		Performance score
Battery life (hr:min)	Minutes per WHr	
12:35	14.8	736
8:00		410

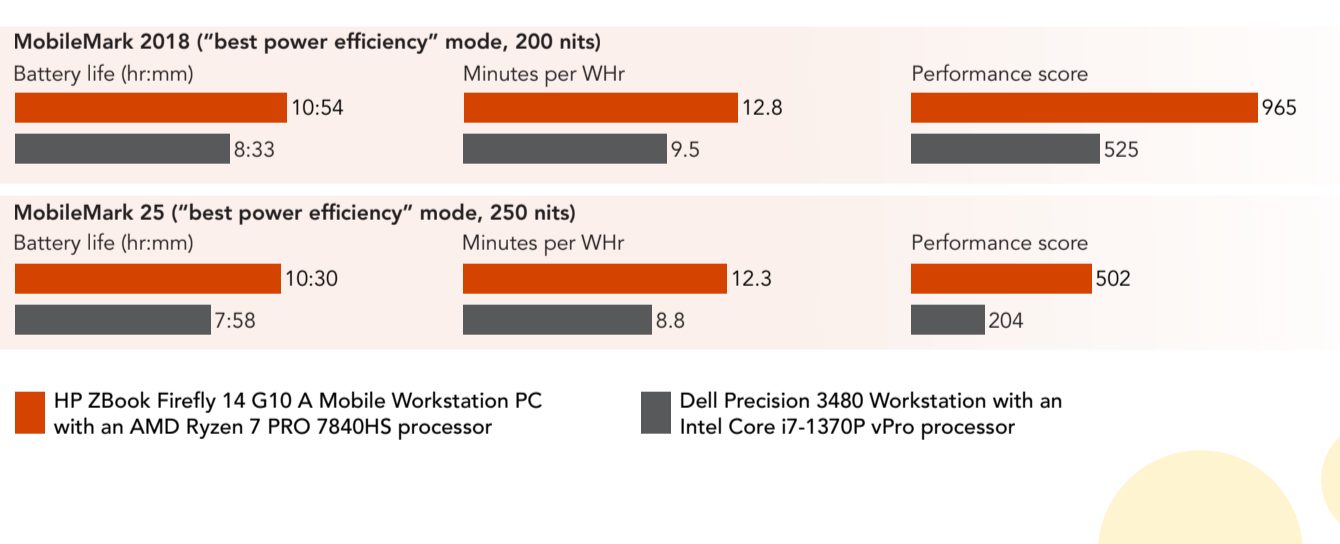| ■ HP EliteBook 845 G10 with an AMD Ryzen 7 PRO 7840HS processor	■ Dell Latitude 7440 laptop with an Intel Core i7-1370P vPro processor

HP ZBook Firefly 14 G10 A

The HP ZBook Firefly 14 with an AMD Ryzen™ 7 PRO 7840HS processor offers even higher performance, great for technical and creative professionals who work with intensive apps. With a full workday of battery life and higher PassMark and Cinebench scores than the Dell Precision 3480 Workstation, the ZBook Firefly 14 is a wise investment for those who value premium features along with superior performance.
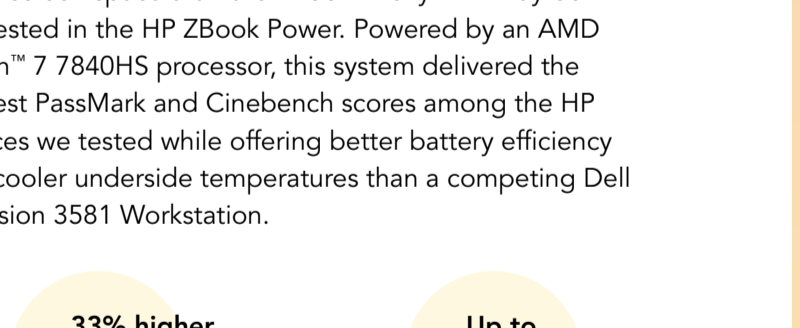
Up to 10 hours 54 min of battery life	10% higher overall PassMark score vs. Dell Precision 3480	20% higher Cinebench score vs. Dell Precision 3480	Up to 21°F cooler vs. Dell Precision 3480

PassMark PerformanceTest	Cinebench R23 multi-core	Underside surface temperatures
7,835.6	14,594	126.5°F
7,121.3	12,076	147.6°F

MobileMark 2018 ("best battery efficiency" mode, 200 nits)		Performance score
Battery life (hr:min)	Minutes per WHr	
10:54	12.8	965
8:33	9.5	525

MobileMark 25 ("best battery efficiency" mode, 250 nits)		Performance score
Battery life (hr:min)	Minutes per WHr	
10:30	11.2	802
7:58	8.8	204

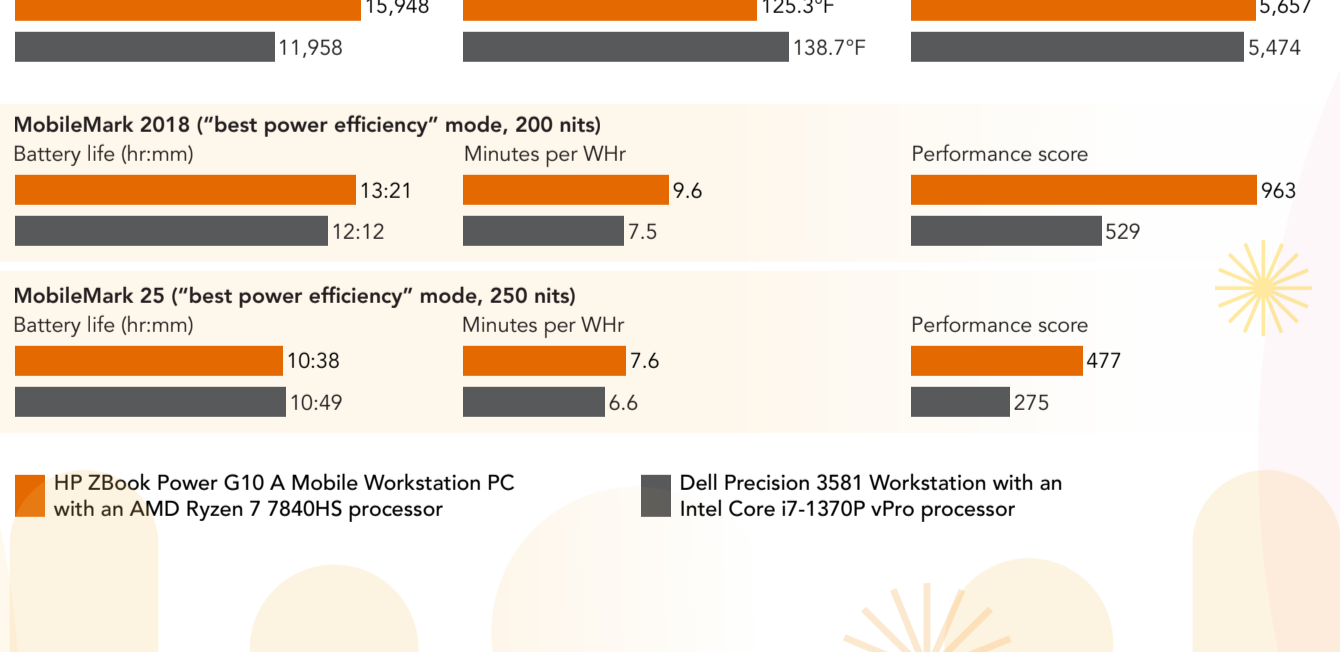| ■ HP ZBook Firefly 14 G10 A Mobile Workstation PC with an AMD Ryzen 7 PRO 7840HS processor	■ Dell Precision 3480 Workstation with an Intel Core i7-1370P vPro processor

HP ZBook Power G10 A

Teams of specialists seeking the power of a high-performance mobile workstation—with even more screen space than the ZBook Firefly 14—may be interested in the HP ZBook Power. Powered by an AMD Ryzen™ 7 7840HS processor, this system delivered the highest PassMark and Cinebench scores among the HP devices we tested while offering better battery efficiency and cooler underside temperatures than a competing Dell Precision 3581 Workstation.

Up to 13 hours 21 min of battery life	3.3% higher Procyon Video Editing score vs. Dell Precision 3581	33% higher Cinebench score vs. Dell Precision 3581	Up to 13° cooler vs. Dell Precision 3581

Cinebench R23 multi-core	Underside surface temperatures	Procyon Video Editing
15,948	125.3°F	5,657
11,958	138.7°F	5,474

MobileMark 2018 ("best battery efficiency" mode, 200 nits)		Performance score
Battery life (hr:min)	Minutes per WHr	
13:21	9.6	963
12:12	7.5	529

MobileMark 25 ("best battery efficiency" mode, 250 nits)		Performance score
Battery life (hr:min)	Minutes per WHr	
10:38	7.6	477
10:49	6.6	275

■ HP ZBook Power G10 A Mobile Workstation PC with an AMD Ryzen 7 7840HS processor	■ Dell Precision 3581 Workstation with an Intel Core i7-13700H vPro processor

To learn more see the reports below: