

COMPARISON OF 15-INCH CLASS LAPTOPS

We compared the Dell™ XPS™ 15 with other 15-inch-class laptops. These include devices from Acer®, Aorus®, Apple®, ASUS®, CHUWI®, Fujitsu®, HP, Lenovo®, Sager®, Samsung®, and Toshiba®. The tables below compare the systems using publicly available data at each vendor's respective website. We gathered this data on 02/22/2018 at the links provided.

According to vendor-provided data for these laptops, the Dell XPS 15:

- has the longest battery life of any 15-inch performance laptop¹
- is the smallest 15.6-inch performance laptop²

Brand	Model	Battery info	Battery life claims
Dell	XPS 15	6-cell Lithium ion 97Wh	19.5 hours
Acer	Aspire 3 (A315-21-95KF)	2 cell Lithium Ion 4810 mAh	5.5 hours
Acer	Aspire 3 (A315-51-31GK) (A315-31-C514) (A315-51-31RD) (A315-31-C8WK) (A315-51-580N) (A315-51-51SL) (A315-31-POSY) (A315-31-C58L) (A315-51-380T) (A315-51-C0DT) (A315-51-C06Z) (A315-51-582F) (A315-51-39CG)	2 cell Lithium Ion 4810 mAh	6.5 hours
Acer	Aspire 3 (A315-51-533U) (A315-52-50N9)	2 cell Lithium Ion 4810 mAh	No official claim. B&H claims 6.5 hours.

¹ Performance laptops contain either a Core i?-7xxxHQ or HK processor, or a discrete GPU

² There are several smaller Samsung Notebook 9 devices, but those notebooks also have a 15-inch screen as opposed to 15.6 inches.



Brand	Model	Battery info	Battery life claims
Acer	Aspire 3 (A315-51-57Z4) (A315-51-52S5) (A315-51-514S) (A315-51-38QP) (A315-51-361T) (A315-51-30AT)	2 cell Lithium Ion 4810 mAh	No official claim. CDW claims 6.5 hours.
Acer	Aspire 3 (A315-21-47B4)	2 cell Lithium Ion 4810 mAh	5.5 hours
Acer	Aspire 3 (A315-21-4098) (A315-21-92FX)	2 cell Lithium Ion 4810 mAh	5.5 hours
Acer	Aspire 5 (A515-51G-515J) (A515-51G-89LS) (A515-51G-5067) (A515-51G-5504)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	Aspire 5 (A515-51-5398) (A515-51-513F)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	Aspire 5 (A515-51-84PS)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	Aspire 5 (A515-51G-84ZP)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	Aspire 5 (A515-51G-503E) (A515-51G-53F6)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	Aspire 5 (A515-41G-F3FL)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	Aspire 5 (A715-71G-71NC)	4-cell 3220 mAh Li-Polymer	7 hours

Brand	Model	Battery info	Battery life claims
Acer	Aspire 5 (A515-51-50RR) (A515-51G-5488)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	Aspire 5 (A515-51-3509) (A515-51-563W) (A515-51-75UY) (A515-51G-58SA) (A515-51-55FD) (A515-51-7414) (A515-51-53TH) (A515-51-89UP) (A515-51G-5536) (A515-51G-71RS)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	Aspire 5 (A515-51-50XZ)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	Aspire 7 (A715-71G-71L2) (A715-71G-7588)	4 cell Lithium Ion 3220 mAh	7 hours
Acer	Aspire E (E5-576G-81GD) (E5-576G-825K)	6 cell Lithium Ion 2800 mAh	No official claim. No third-party claim found.
Acer	Aspire E (E5-576G-5762) (E5-576G-56HU)	6 cell Lithium Ion 2800 mAh	No official claim. No third-party claim found.
Acer	Aspire E (E5-575T-33CF)	6 cell Lithium Ion 2800 mAh	No official claim. No third-party claim found.
Acer	Aspire E (E5-575G-57D4)	6 cell Lithium Ion 2800 mAh	No official claim. TeradataRiver claims 8 hours (Laptop Mag Battery Test).
Acer	Aspire E (E5-553-T5K4) (E5-553G-F8EF) (E5-553G-14QY)	6 cell Lithium Ion 2800 mAh	No official claim. No third-party claim found.

Brand	Model	Battery info	Battery life claims
Acer	Aspire E (E5-575-33BM)	6 cell Lithium Ion 2800 mAh	No official claim. PC Verge claims 9 hours, 45 minutes.
Acer	Aspire E (E5-575G-728Q)	4-cell Lithium Ion 2800 mAh	No official claim. Newegg claims up to 8 hours.
Acer	Aspire E (E5-575-79EP) (E5-553-T2XN) (E5-575-72N3)	4-cell Lithium Ion 2800 mAh	No official claim. No third-party claim.
Acer	Aspire E (E5-575T-3678)	4-cell Lithium Ion 2800 mAh	8 Hours
Acer	Aspire ES (ES1-533-C55P) (ES1-572-3729)	4 cell Lithium Ion 3220 mAh	6.5 hours
Acer	Aspire F 15 (F5-573-7630)	6-cell Lithium Ion 2800 mAh	12 hours
Acer	Aspire F 15 (F5-573G-77BJ)	6 cell Lithium Ion 2800 mAh	12 hours
Acer	Aspire V Nitro (VN7-592G-788W)	3-cell 4605 mAh Lithium Ion	5 hours
Acer	Aspire V Nitro (VN7-593G-73KV)	4-cell 4605 mAh Lithium Ion	6 hours
Acer	Nitro 5 (AN515-51-75A2) (AN515-51-5594) (AN515-51-55WL) (AN515-51-78C6) (AN515-51-72HL)	4-cell 3220 mAh Lithium Ion	8.5 hours

Brand	Model	Battery info	Battery life claims
Acer	Nitro 5 (AN515-51-504A) (AN515-51-74U4) (AN515-51-70V4) (AN515-51-53W5) (AN515-51-50PN) (AN515-51-79DZ) (AN515-51-71LP) (AN515-51-76SX) (AN515-51-56U0) (AN515-51-522L)	4-cell 3220 mAh Lithium Ion	7 hours
Acer	Nitro 5 (AN515-41-F03E) (AN515-41-F6VS)	4-cell 3220 mAh Lithium Ion	6 hours
Acer	Predator 15 (G9-593-735L)	8-cell 6000 mAh Lithium Ion	3 hours
Acer	Predator 15 (G9-593-77WF) (G9-593-71EH)	8-cell 6000 mAh Lithium Ion	3 hours
Acer	Predator 15 (G9-593-73N6)	8-cell 6000 mAh Lithium Ion	3 hours
Acer	Predator Helios 300 (G3-571-77QK)	4-cell 3220 mAh Lithium Ion	7 hours
Acer	Predator Helios 300 (G3-572-72YF) (G3-572-78JY) (G3-572-7526)	4-cell 3220 mAh Lithium Ion	9 hours
Acer	Predator Triton 700 (PT715-51-732Q) (PT715-51-761M)	3-cell 4670 mAh Lithium Ion	5 hours
Acer	Aspire VX 15 (VX5-591G-75RM)	3-cell 4605 mAh Lithium Ion	6 hours

Brand	Model	Battery info	Battery life claims
Acer	Swift 3 (SF315-51-518S)	4-cell 3220 mAh Lithium Ion	10 hours
Acer	Swift 3 (SF315-51G-51CE)	4-cell 3220 mAh Lithium Ion	10 hours
Acer	TravelMate P6 (TMP658-MG-749P)	3-cell 4850 mAh Lithium Ion	No official claim. Amazon claims 10 hours.
Acer	TravelMate P6 (TMP658-M-70S3)	3-cell 4850 mAh Lithium Ion	No official claim. Amazon claims 10 hours
Acer	TravelMate P6 (TMP658-M-50NJ)	3-cell 4850 mAh Lithium Ion	No official claim. Amazon claims 10 hours.
Acer	TravelMate P6 (TMP658-M-59SY)	3-cell 4850 mAh Lithium Ion	No official claim. Amazon claims 10 hours.
Aorus	X5	Li Polymer 73.26Wh	No official claim. Notebook Check claims 2 hours, 45 minutes while idle.
Aorus	X5S v5	Li Polymer 73.26Wh	No official claim. Notebook Check claims 5 hours, 13 minutes while idle.
Aorus	X5 v6	Li Polymer 94.24Wh	No official claim. Notebook Check claims 4 hours, 9 minutes while idle.
Aorus	X5 v7	Li Polymer 94.24Wh	No official claim. The Tech Report claims 2.9 hours of web browsing.
Aorus	X5 MD	Li Polymer 94.24Wh	No official claim. Ultrabook Review claims 3 hours, 10 minutes of movie playback.
Apple	MacBook Pro with Retina Display	99.5 Whr Lithium-polymer battery	9 hours of wireless web browsing; 9 hours of iTunes movie playback
Apple	MacBook Pro with Touch Bar	76.0 Whr Lithium-polymer battery	10 hours of wireless web browsing 10 hours of iTunes movie playback
ASUS	ROG GL553VD	4 cell 48 Whrs Li-ion	No official claim. PC Verge claims 4 hours, 21 minutes.
ASUS	ROG GL553VE	4 cell 48 Whrs Li-ion	No official claim. Amazon claims 5 hours.
ASUS	ROG GL502VS	4 cell 62 Whrs	No official claim. Engadget claims 6 hours.

Brand	Model	Battery info	Battery life claims
ASUS	ROG GL503 (ROG Strix Hero Edition) (ROG Strix SCAR Edition)	4 cell 64 Whrs	No official claim. LAPTOP Magazine claims 3 hours, 32 minutes (browsing web on Wi-Fi).
ASUS	ROG ZEPHYRUS (GX501)	4 cell 50 Whrs Li-ion	6 hours web browsing
ASUS	ZenBook Pro UX550VE	73Wh 8 cell	14 hours
ASUS	VivoBook S15 S510UA	3 cell 42 Whrs	No official claim. Notebook Check claims 4.5 hours of real-world WLAN use.
ASUS	VivoBook Pro 15 N580VD	3 cell 47 Whrs	No official claim. PC Verge claims 4 to 5 hours.
ASUS	VivoBook Max X541UA	3 cell 36 Whrs	No official claim. Gadgets 360 claims 2 hours, 17 minutes with Battery Eater Pro and 3 hours, 39 minutes with PCMark Battery.
CHUWI	LapBook 15.6	10000mAh	5 hours
Fujitsu	Lifebook E557	Main Li-Ion battery 6-cell, 5,800 mAh, 63 Wh High Capacity Li-Ion battery 6-cell, 6,700 mAh, 72 Wh	Up to 13 hours, 10 minutes with HD Display, 500 GB HDD, 63 Wh Up to 11 hours, 20 minutes with FHD Display, 500 GB HDD, 63 Wh Up to 17 hours, 30 minutes with HD Display, 256 GB SSD, 72 Wh Up to 14 hours, 50 minutes with FHD Display, 256 GB SSD, 72 Wh
Fujitsu	Lifebook E558	Lithium polymer battery 4-cell, 50 Wh	Up to 13 hours, 40 minutes
Fujitsu	Lifebook U757	Li-Ion battery 4-cell, 50 Wh	Up to 11 hours, 20 minutes with HD Display; up to 9 hours, 10 minutes with FHD (non-touch or touchscreen)
HP	15t	4 cell (41 WHr) Lithium-ion Battery	6 hours, 15 minutes
HP	250 G6	4 cell (41 WHr) Lithium-ion Battery	12 hours
HP	255 G6	4 cell (41 WHr) Lithium-ion Battery	7 hours, 30 minutes
HP	OMEN 15t	4 cell (63.3 WHr) Lithium-ion Battery	Up to 8 hours, 30 minutes

Brand	Model	Battery info	Battery life claims
HP	OMEN 15 -ce051nr	4-cell, 70 Wh Li-ion	Up to 7 hours
HP	HP Pavilion Power Laptop - 15t Quad	4 cell (70 WHr) Lithium-ion polymer Battery	10 hours, 30 minutes FHD 8 hours, 30 minutes UHD 9 hours video playback FHD 6 hours, 45 minutes video playback UHD
HP	Pavilion 15t	3 cell (41 WHr) Lithium-ion prismatic Battery	9 hours HD 7 hours, 15 minutes FHD 8 hours, 45 minutes video playback HD 7 hours, 15 minutes video playback FHD
HP	Pavilion 15z	3 cell 31 WHr Lithium-ion Battery 4 cell 41 WHr Lithium-ion Battery	6 hours, 45 minutes HD 5 hours, 15 minutes FHD 4 hours, 45 minutes video playback HD 4 hours, 15 minutes video playback FHD
HP	Pavilion 15-cc555nr	3 cell (41 WHr) Lithium-ion prismatic Battery	Up to 10 hours, 15 minutes.
HP	EliteBook 755 G4	3 Cell 51 WHr Long Life	No official claim. Newegg claims 14.8 hours.
HP	EliteBook 850 G3	3-cell (46 WHr) Long Life	13 hours 15 mins
HP	EliteBook 850 G4	3-cell (51 WHr) Lithium-Ion Battery	Up to 14 hours 15 mins (MM2014)
HP	Envy 15t	3-cell (52 WHr) Lithium-Ion Battery	7 hours
HP	Envy 15-as-152nr	3-cell (52 WHr) Lithium-Ion Battery	7 hours 30 mins
HP	ProBook 450 G3	4-Cell (44 WHr) Lithium-Ion Battery 6-cell (55 WHr) Battery Long Life	No official claim. Notebook Check claims 5 hours, 37 minutes during video playback, and 5 hours, 9 minutes while using WiFi.
HP	ProBook 450 G4	3-cell (48 WHr) Long Life Li-ion	Up to 14 hours, 15 minutes
HP	ProBook 450 G5	3-cell (48 WHr) Long Life Li-ion	Up to 16 hours, 15 minutes

Brand	Model	Battery info	Battery life claims
HP	ProBook 650 G2	3-cell (48 WHr) Long Life Li-ion	No official claim. Notebook Check claims 6 hours, 48 minutes while using WiFi.
HP	ProBook 650 G3	3-cell (48 WHr) Long Life	Up to 13 hours, 45 minutes.
HP	ProBook 655 G3	3-cell (48 WHr) Long Life	No official claim. B&H claims 9.5 hours.
HP	Zbook 15 G3	9-cell (90 WHr) Long Life	No official claim. Notebook Check claims 6 hours, 26 minutes while using WiFi.
HP	Zbook 15u G3	3-cell 46 WHr Li-ion prismatic	No official claim. Notebook Check claims 5 hours, 12 minutes while using WiFi.
HP	Zbook 15u G4	3-cell 51 WHr Li-ion	No official claim. Nothing But Savings claims 10 hours.
HP	Zbook Studio G3	4-cell 64 WHr Li-ion prismatic	No official claim. No third-party claims.
HP	Zbook Studio G4	4-cell 64 WHr Li-ion prismatic	No official claim. LAPTOP Magazine claims 4 hours, 26 minutes during continuous web surfing.
Lenovo	Ideapad 110	3 Cell 24 Watt Hour Li-Polymer	Up to 3 Hours Video Playback
Lenovo	Ideapad 300	No info	Up to 4 Hours Video Playback
Lenovo	Ideapad 310	30Wh	Up to 5 Hours Video Playback
Lenovo	Ideapad 320s	No info	Up to 9 hours (MobileMark)
Lenovo	Ideapad 320	No info	5 hours
Lenovo	Ideapad 510	2 Cell 39 Watt Hour Li-Polymer	5 hours
Lenovo	Ideapad 520	2 Cell 39 Watt Hour Li-Polymer	5 hours
Lenovo	Ideapad 720S	4 Cell 79 Watt Hour Li-Polymer	9 hours

Brand	Model	Battery info	Battery life claims
Lenovo	Ideapad Y700	4 Cell 60 Watt Hour Li-Polymer	No official claim. No third-party claim.
Lenovo	Legion Y520	3 Cell 45 Watt Hour Li-Polymer	Up to 4 hours
Lenovo	Legion Y720	4 Cell 60 Watt Hour Li-Polymer	Up to 5 hours
Lenovo	ThinkPad P50	6 cell 90 Watt Hour Li-Polymer	No official claim. Notebook Check claims 14 hours (Battery Eater Reader's Test).
Lenovo	ThinkPad P51	6 cell 90 Watt Hour Li-Polymer	No official claim. LAPTOP Magazine claims 8 hours, 2 minutes.
Lenovo	ThinkPad P51s	Integrated Li-Polymer 4-cell (32Wh) Optional: (48Wh or 72Wh)	No official claim. Notebook Check claims 26 hours, 21 minutes with dual batteries.
Lenovo	ThinkPad E570	Li-Ion 4-cell (41WHr)	No official claim. PC Connection claims 7 hours.
Lenovo	ThinkPad E575	Li-Ion 4-cell (41WHr)	6.5 hours
Lenovo	ThinkPad E580	3 Cell Li-Polymer Battery 45WH	13 hours
Lenovo	ThinkPad T560	3 Cell Battery 44Wh Front 3 Cell Battery 24Wh Rear	13 Hours (44 WHr + 23 WHr)
Lenovo	ThinkPad T570	Integrated Li-Polymer 4-cell (32Wh) Rear: (24Wh, 48Wh, or 72Wh)	27 Hours (32 WHr + 72 WHr)
Lenovo	ThinkPad L570	Li-Ion 6-cell (48Wh)	15.5 hours
Sager	NP9155	Removable 8 cell Smart Lithium-Ion battery pack 82Wh	No official claim. Xotic PC claims 2+ hours.
Sager	NP8952	Embedded 4 cells Polymer battery pack 55WH	No official claim. Xotic PC claims 2+ hours.
Sager	NP8157	Embedded 4 cells Polymer battery pack 60WH	No official claim. Xotic PC claims 2+ hours.
Sager	NP8156	Embedded 4 cells Polymer battery pack 60WH	No official claim. Tom's Hardware claims 1.6 hours.

Brand	Model	Battery info	Battery life claims
Sager	NP6852	Removable 6 cells Smart Lithium-Ion battery pack 62WH	No official claim. Tom's Hardware claims 1.95 hours.
Sager	NP6850	Removable 6 cells Smart Lithium-Ion battery pack 62WH	No official claim. Xotic PC claims 2+ hours.
Sager	NP7850	Removable 6 cells Smart Lithium-Ion battery pack 62WH	No official claim. Xotic PC claims 3+ hours.
Sager	NP5852	Removable 6 cells Smart Lithium-Ion battery pack 62WH	No official claim. Xotic PC claims 2+ hours.
Sager	NP5855	Removable 6 cells Smart Lithium-Ion battery pack 62WH	No official claim. Xotic PC claims 2+ hours.
Sager	NP8950	4 cells Polymer battery pack 55WH	No official claim. Xotic PC claims 2+ hours.
Sager	NP8952	4 cells Polymer battery pack 55WH	No official claim. Xotic PC claims 2+ hours.
Samsung	Notebook 5 NP530E5M-X02US	3 cell Li-ion 43Wh	Up to 8.5 hours (MM2014)
Samsung	Notebook 5 NP500R5L-M02US	43Wh	7 hours (MM2014)
Samsung	Notebook 9 NP900X5N-X01US	66Wh	No official claim. bitTEKNIK claims up to 15 hours (MM2014).
Samsung	Notebook 9 NP900X5N-L01US	6 cell Li-ion 66Whr	No official claim. B&H claims up to 12 hours.
Samsung	Notebook 9 NP900X5L-K02US	4 cell 39Whr	12 hours (MM2007)
Samsung	Notebook 9 Pro NP940X5M-X01US	4 cell 54 Wh	11.5 hours (MM2014)
Samsung	Notebook Odyssey NP800G5M-X02US NP800G5M-X01US	43 Wh	Up to 9.5 hours (MM2014)

Brand	Model	Battery info	Battery life claims
Toshiba	Tecra C50 01301H D1512 C1510 C1511 C1513	Lithium Ion (45Wh, 4-cell), Not user replaceable	Up to 9.08 hours
Toshiba	Tecra A50 C1543 D1532	Lithium Ion (45Wh, 4-cell), Not user replaceable	Up to 9.08 hours
Toshiba	Tecra A50 D1534 D1538	Lithium Ion (45Wh, 4-cell), Not user replaceable	No official claim. LAPTOP Magazine claims 5 hours, 59 minutes.
Toshiba	Tecra Z50 D1552	4-cell 45 Wh	8.33 (MM2014)

Figure 1: Battery information. All links and data current as of 02/22/2018.

Brand	Model	Thickness		Dimensions		total area (sq. in.)	Weight	
		mm	inches	mm	inches		lbs	kg
Dell	XPS 15	12.0–17.0	0.46–0.66	357 x 235	14.06 x 9.25	130.055	4.0	1.80
Acer	Aspire 3 (A315-21-95KF)		0.85		15.02 x 10.20	153.2	4.63	
Acer	Aspire 3 (A315-51-31GK) (A315-31-C514) (A315-51-31RD) (A315-31-C8WK) (A315-51-580N) (A315-51-51SL) (A315-31-POSY) (A315-31-C58L) (A315-51-380T) (A315-51-CODT) (A315-51-C06Z) (A315-51-582F) (A315-51-39CG)		0.85		15.02 x 10.20	153.2	4.63	
Acer	Aspire 3 (A315-51-533U) (A315-52-50N9)		0.85		15.02 x 10.20	153.2	4.63	
Acer	Aspire 3 (A315-51-57Z4) (A315-51-52S5) (A315-51-514S) (A315-51-38QP) (A315-51-361T) (A315-51-30AT)		0.82		15.02 x 10.20	153.2	4.63	
Acer	Aspire 3 (A315-21-47B4)		0.85		15.02 x 10.20	153.2	4.63	

Brand	Model	Thickness		Dimensions		total area (sq. in.)	Weight	
		mm	inches	mm	inches		lbs	kg
Acer	Aspire 3 (A315-21-4098) (A315-21-92FX)		0.85		15.02 x 10.20	153.2	4.63	
Acer	Aspire 5 (A515-51G-515J) (A515-51G-89LS) (A515-51G-5067) (A515-51G-5504)		0.82		15.02 x 10.35	155.47	4.85	
Acer	Aspire 5 (A515-51-5398) (A515-51-513F)		0.82		15.02 x 10.35	155.47	4.85	
Acer	Aspire 5 (A515-51-84PS)		0.82		15.02 x 10.35	155.47	4.63	
Acer	Aspire 5 (A515-51G-84ZP)		0.82		15.02 x 10.35	155.47	4.85	
Acer	Aspire 5 (A515-51G-503E) (A515-51G-53F6)		0.85		15.02 x 10.35	155.47	4.85	
Acer	Aspire 5 (A515-41G-F3FL)		0.85		15.02 x 10.35	155.47	4.85	
Acer	Aspire 5 (A715-71G-71NC)		0.94		15.02 x 10.35	155.47	5.29	
Acer	Aspire 5 (A515-51-50RR) (A515-51G-5488)		0.85		15.02 x 10.35	155.5	4.85	
Acer	Aspire 5 (A515-51-3509) (A515-51-563W) (A515-51-75UY) (A515-51G-58SA) (A515-51-55FD) (A515-51-7414)		0.85		15.02 x 10.35	155.5	4.85	

Brand	Model	Thickness		Dimensions		total area (sq. in.)	Weight	
		mm	inches	mm	inches		lbs	kg
	(A515-51-53TH) (A515-51-89UP) (A515-51G-5536) (A515-51G-71RS)							
Acer	Aspire 5 (A515-51-50XZ)		0.85		15.02 x 10.35	155.5	4.63	
Acer	Aspire 7 (A715-71G-71L2) (A715-71G-7588)		0.94		15.02 x 10.35	155.5	5.29	
Acer	Aspire E (E5-576G-81GD) (E5-576G-825K)		1.19		15.02 x 10.20	153.2	5.27	
Acer	Aspire E (E5-576G-5762) (E5-576G-56HU)		1.19		15.02 x 10.20	153.2	5.27	
Acer	Aspire E (E5-575T-33CF)		1.19		15.02 x 10.20	153.2	5.29	
Acer	Aspire E (E5-575G-57D4)		1.19		15.02 x 10.2	153.2	5.27	
Acer	Aspire E (E5-553-T5K4) (E5-553G-F8EF) (E5-553G-14QY)		1.19		15.02 x 10.2	153.2	5.27	
Acer	Aspire E (E5-575-33BM)		1.19		15.02 x 10.2	153.2	5.27	
Acer	Aspire E (E5-575G-728Q)		1.19		15.02 x 10.2	153.2	4.92	
Acer	Aspire E (E5-575-79EP) (E5-553-T2XN) (E5-575-72N3)		1.19		15.02 x 10.2	153.2	4.92	

Brand	Model	Thickness		Dimensions		total area (sq. in.)	Weight	
		mm	inches	mm	inches		lbs	kg
Acer	Aspire E (E5-575T-3678)		1.19		15.02 x 10.2	153.2	4.92	
Acer	Aspire ES (ES1-533-C55P) (ES1-572-3729)		0.97		15.03 x 10.16	152.7	5.29	
Acer	Aspire F 15 (F5-573-7630)		1.12		15.02 x 10.2	153.2	5.29	
Acer	Aspire F 15 (F5-573G-77BJ)		1.12		15.02 x 10.2	153.2	5.29	
Acer	Aspire V Nitro (VN7-592G-788W)		0.9		15.35 x 10.35	158.9	5.07	
Acer	Aspire V Nitro (VN7-593G-73KV)		0.98		15.39 x 10.47	161.1	5.73	
Acer	Nitro 5 (AN515-51-75A2) (AN515-51-5594) (AN515-51-55WL) (AN515-51-78C6) (AN515-51-72HL)		1.05		15.35 x 10.47	160.7	5.95	
Acer	Nitro 5 (AN515-51-504A) (AN515-51-74U4) (AN515-51-70V4) (AN515-51-53W5) (AN515-51-50PN) (AN515-51-79DZ) (AN515-51-71LP) (AN515-51-76SX) (AN515-51-56U0) (AN515-51-522L)		1.05		15.35 x 10.47	160.7	5.95	

Brand	Model	Thickness		Dimensions		total area (sq. in.)	Weight	
		mm	inches	mm	inches		lbs	kg
Acer	Nitro 5 (AN515-41-F03E) (AN515-41-F6VS)		1.05		15.35 x 10.47	160.7	5.95	
Acer	Predator 15 (G9-593-735L)		1.52		15.4 x 11.8	181.7	8.16	
Acer	Predator 15 (G9-593-77WF) (G9-593-71EH)		1.52		15.4 x 11.8	181.7	8.16	
Acer	Predator 15 (G9-593-73N6)		1.52		15.4 x 11.8	181.7	8.16	
Acer	Predator Helios 300 (G3-571-77QK)		1.05		15.4 x 10.5	161.7	5.95	
Acer	Predator Helios 300 (G3-572-72YF) (G3-572-78JY) (G3-572-7526)		1.05		15.4 x 10.5	161.7	5.95	
Acer	Predator Triton 700 (PT715-51-732Q) (PT715-51-761M)		0.74		15.5 x 10.5	162.8	5.29	
Acer	Aspire VX 15 (VX5-591G-75RM)		1.14		15.31 x 10.45	160	5.51	
Acer	Swift 3 (SF315-51-518S)		0.74		14.59 x 10.04	146.5	4.41	
Acer	Swift 3 (SF315-51G-51CE)		0.74		14.59 x 10.04	146.5	4.63	
Acer	TravelMate P6 (TMP658-MG-749P)		0.88		15 x 10.02	150.3	4.6	
Acer	TravelMate P6 (TMP658-M-70S3)		0.88		15 x 10.02	150.3	4.6	
Acer	TravelMate P6 (TMP658-M-50NJ)		0.88		15 x 10.02	150.3	4.6	

Brand	Model	Thickness		Dimensions		total area (sq. in.)	Weight	
		mm	inches	mm	inches		lbs	kg
Acer	TravelMate P6 (TMP658-M-59SY)		0.88		15 x 10.02	150.3	5.07	
Aorus	X5	22.9	0.9	390 x 272	15.35 x 10.70	164.2	5.51	
Aorus	X5S v5	22.9	0.9	390 x 272	15.35 x 10.70	164.2	5.51	
Aorus	X5 v6		0.9		15.4 x 10.7	164.8	5.51	
Aorus	X5 v7		0.9		15.4 x 10.7	164.8	5.51	
Aorus	X5 MD		0.9		15.4 x 10.7	164.8	5.51	
Apple	MacBook Pro with Retina Display	18	0.71	358.9 x 247.1	14.13 x 9.73	137.48	4.49	2.04
Apple	MacBook Pro with Touch Bar	15.5	0.61	349.3 x 240.7	13.75 x 9.48	130.4	4.02	1.83
ASUS	ROG GL553VD		1.18		15.07 x 10.03	151.1	5.51	
ASUS	ROG GL553VE		0.8		15.07 x 10.03	151.1	5.51	
ASUS	ROG GL502VS		1.18		15.35 x 10.47	160.7	5.2	
ASUS	ROG GL503 (ROG Strix Hero Edition) (ROG Strix SCAR Edition)		0.9		15.1 x 10.3	155.5	5.1	
ASUS	ROG ZEPHYRUS (GX501)		0.67 - 0.7		14.9 x 10.3	153.5	5	
ASUS	ZenBook Pro UX550VE		0.74		14.37 x 9.88	142	3.97	1.8
ASUS	VivoBook S15 S510UA		0.7		14.2 x 9.6	136.3	1.5	
ASUS	VivoBook Pro 15 N580VD		0.8		15 x 10	150	4.39 Non Touch 5.05 Touch	
ASUS	VivoBook Max X541UA		1.08		15.01 x 9.90	148.6	4.4	
CHUWI	LapBook 15.6	9 mm - 22 mm	0.35 - 0.87	371 x 240	14.61 x 9.45	138.1	4.1	1.86

Brand	Model	Thickness		Dimensions		total area (sq. in.)	Weight	
		mm	inches	mm	inches		lbs	kg
Fujitsu	Lifebook E557		0.95-1.24		14.7 x 9.8	144.1	4.9	
Fujitsu	Lifebook E558		0.94		14.92 x 9.8	150.4	4.5	
Fujitsu	Lifebook U757		0.76		14.88 x 10.08	150	3.7	
HP	15t		0.94		14.96 x 9.99	149.5	4.21	
HP	250 G6		0.93		14.96 x 9.99	149.5	4.14	
HP	255 G6		0.93		14.96 x 9.99	149.5	4.14	
HP	OMEN 15t		0.96		15.06 x 9.94	143.9	4.85	
HP	OMEN 15 -ce051nr		0.98		15.3 x 10.85	166	5.77	
HP	HP Pavilion Power Laptop - 15t Quad		0.95		14.88 x 9.93	147.8	4.87	
HP	Pavilion 15t		0.89		14.88 x 9.93	147.8	4.21	
HP	Pavilion 15z		0.94		14.96 x 9.99	149.5	4.1	
HP	Pavilion 15-cc555nr		0.78		14.88 x 9.93	147.8	4.21	
HP	EliteBook 755 G4		0.76		15.1 x 10.1	152.51	4.06	
HP	EliteBook 850 G3		0.76 (non-touch) 0.82 (touch)		15.09 x 10.1	152.4	4.06 (non-touch) 4.54 (touch)	
HP	EliteBook 850 G4		0.76 (non-touch) 0.82 (touch)		15.1 x 10.1	150.1	4.06 (non-touch) 4.54 (touch)	
HP	Envy 15t		0.71		14.96 x 10.04	150.1	4.8	
HP	Envy 15-as-152nr		0.71		14.96 x 10.04	150.1	4.32	
HP	ProBook 450 G3		0.94-0.98 (non touch) 1.00-1.04 (touch)		14.88 x 10.41 (non-touch) 14.88 x 10.42 (touch)	154.9 (non-touch) 155.0 (touch)	4.56	
HP	ProBook 450 G4		0.96		15.04 x 10.35	155.6	4.49	
HP	ProBook 450 G5		0.82		14.8 x 10.4	153.9	4.64	
HP	ProBook 650 G2		1.07		14.88 x 10.11	150.4	5.1	
HP	ProBook 650 G3		1.07		14.88 x 10.11	150.4	5.1	
HP	ProBook 655 G3		1.07		14.88 x 10.11	150.4	5.1	

Brand	Model	Thickness		Dimensions		total area (sq. in.)	Weight	
		mm	inches	mm	inches		lbs	kg
HP	Zbook 15 G3		1		15.2 x 10.4	158.08	5.8	
HP	Zbook 15u G3		0.78		15.09 x 10.1	152.4	4.18	
HP	Zbook 15u G4		0.78		15.09 x 10.1	152.4	4.18	
HP	Zbook Studio G3		0.71		14.76 x 10.04	148.2	4.4	
HP	Zbook Studio G4		0.71		14.76 x 10.04	148.2	4.6	
Lenovo	Ideapad 110		0.9		14.88 x 10.43	155.2	4.8	
Lenovo	Ideapad 300		0.90 - 0.92		15.11 x 10.43	157.6	5.1	
Lenovo	Ideapad 310		0.9		14.92 x 10.24	152.7	4.9	
Lenovo	Ideapad 320s		0.78		14.27 x 9.92	141.5	4.88	
Lenovo	Ideapad 320		0.9		14.9 x 10.2	152	4.85	
Lenovo	Ideapad 510		0.9		14.92 x 10.24	152.8	4.63	
Lenovo	Ideapad 520		0.9		14.89 x 10.2	151.9	4.8	
Lenovo	Ideapad 720S		0.7		14.12 x 9.58	135.3	4.8	
Lenovo	Ideapad Y700		1.02		15.23 x 10.90	166	5.7	
Lenovo	Legion Y520		1.09		14.96 x 10.43	156	5.29	
Lenovo	Legion Y720		1.14		14.96 x 10.9	163.1	7.05	
Lenovo	ThinkPad P50		1.02		14.86 x 9.93	147.6	5.6	
Lenovo	ThinkPad P51		0.96 - 1.02		14.86 x 9.93	147.6	5.6	
Lenovo	ThinkPad P51s		0.78 - 0.79		14.4 x 9.95	143.3	4.3	
Lenovo	ThinkPad E570		0.9		14.92 x 10.27	153.2	5.1	
Lenovo	ThinkPad E575		1		14.92 x 10.27	153.2	5.1	
Lenovo	ThinkPad E580		0.78		14.53 x 9.92	144.1	4.7	
Lenovo	ThinkPad T560		0.88		14.98 x 10.16	152.2	5	
Lenovo	ThinkPad T570		0.78 - 0.80		14.4 x 9.9	142.6	4.5	
Lenovo	ThinkPad L570		1.1		14.8 x 10	148	5.24	
LG	gram (15Z980)		0.7		14.1 x 9.0	126.9	2.41	

Brand	Model	Thickness		Dimensions		total area (sq. in.)	Weight	
		mm	inches	mm	inches		lbs	kg
LG	gram (15Z975) (15Z970)		0.6		14.1 x 9.0	126.9	2.4	
Sager	NP9155		1.5		15.20 x 10.32	156.8	7.5	
Sager	NP8952		0.73		14.96 x 9.80	146.6	4.19	
Sager	NP8157		1.13		15.16 x 10.67	166.4	5.84	
Sager	NP8156		0.98		15.16 x 10.67	161.8	5.5	
Sager	NP6852		1.06		14.88 x 10.51	156.4	5.51	
Sager	NP6850		1.06		14.88 x 10.51	156.4	5.51	
Sager	NP7850		1.18		14.88 x 10.51	156.4	5.51	
Sager	NP5852		0.98		14.88 x 10.51	156.4	5.51	
Sager	NP5855		0.98		14.88 x 10.51	156.4	5.51	
Sager	NP8950		0.73		14.96 x 9.80	146.6	4.19	
Sager	NP8952		0.73		14.96 x 9.80	146.6	4.19	
Samsung	Notebook 5 NP530E5M-X02US		0.98		14.76 x 9.76	144.1	4.37	
Samsung	Notebook 5 NP500R5L-M02US		0.82		14.76 x 9.76	144.1	4.19	
Samsung	Notebook 9 NP900X5N-X01US		0.61		13.70 x 9.03	123.7	2.73	
Samsung	Notebook 9 NP900X5N-L01US		0.61		13.70 x 9.03	123.7	2.6	
Samsung	Notebook 9 NP900X5L-K02US		0.57		13.64 x 9.32	127.1	2.9	
Samsung	Notebook 9 Pro NP940X5M-X01US		0.67		13.67 x 9.41	128.6	3.79	
Samsung	Notebook Odyssey NP800G5M-X02US NP800G5M-X01US		0.94		14.88 x 10.24	152.3	5.51	

Brand	Model	Thickness		Dimensions		total area (sq. in.)	Weight	
		mm	inches	mm	inches		lbs	kg
Toshiba	Tecra C50 01301H D1512 C1510 C1511 C1513		0.95		14.9 x 10.2	151.9	4.96	
Toshiba	Tecra A50 C1543 D1532		0.9		14.9 x 10.2	151.9	4.96	
Toshiba	Tecra A50 D1534 D1538		0.95		14.9 x 10.2	151.9	4.96	
Toshiba	Tecra Z50 D1552		0.92		14.9 x 10.2	151.9	4.61	

Figure 2: Dimensional information. All links and data current as of 02/22/2018.

Brand	Model	Processor	Graphics Card	Battery life claims
Dell	XPS 15	7th generation Intel Core processors up to quad-core i7	NVIDIA GeForce GTX 1050	19.5 hours
Acer	Aspire 5 (A715-71G-71NC)	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050	7 hours
Acer	Aspire 7 (A715-71G-71L2) (A715-71G-7588)	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050 NVIDIA GeForce GTX 1050 Ti	7 hours
Acer	Aspire V Nitro (VN7-592G-788W)	Intel Core i7-6700HQ	NVIDIA GeForce GTX 960M	5 hours
Acer	Aspire V Nitro (VN7-593G-73KV)	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1060	6 hours
Acer	Nitro 5 (AN515-51-75A2) (AN515-51-5594) (AN515-51-55WL) (AN515-51-78C6) (AN515-51-72HL)	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050 Ti	8.5 hours
Acer	Nitro 5 (AN515-51-504A) (AN515-51-74U4) (AN515-51-70V4) (AN515-51-53W5) (AN515-51-50PN) (AN515-51-79DZ) (AN515-51-71LP) (AN515-51-76SX) (AN515-51-56U0) (AN515-51-522L)	Intel Core i5-7300HQ Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050 Ti NVIDIA GeForce GTX 1050	7 hours

Brand	Model	Processor	Graphics Card	Battery life claims
Acer	Predator 15 (G9-593-735L)	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1060	3 hours
Acer	Predator 15 (G9-593-77WF) (G9-593-71EH)	Intel Core i7-6700HQ	NVIDIA GeForce GTX 1070	3 hours
Acer	Predator 15 (G9-593-73N6)	Intel Core i7-6700HQ	NVIDIA GeForce GTX 1060	3 hours
Acer	Predator Helios 300 (G3-571-77QK)	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1060	7 hours
Acer	Predator Helios 300 (G3-572-72YF) (G3-572-78JY) (G3-572-7526)	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1060	9 hours
Acer	Predator Triton 700 (PT715-51-732Q) (PT715-51-761M)	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1080 NVIDIA GeForce GTX 1060	5 hours
Acer	Aspire VX 15 (VX5-591G-75RM)	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050 Ti	6 hours
Aorus	X5	5th Generation Intel® Core™ i7-5700HQ	Dual NVIDIA GeForce GTX 965M	No official claim https://www.notebookcheck.net/Aorus-X5-Notebook-Review.147329.0.html 2 hours 45 minutes Idle
Aorus	X5S v5	6th Generation Intel® Core™ i7-6700HQ	NVIDIA GeForce GTX 980M	No official claim https://www.notebookcheck.net/Aorus-X5S-v5-Notebook-Review.164063.0.html 5h 13 minutes Idle

Brand	Model	Processor	Graphics Card	Battery life claims
Aorus	X5 v6	6th Generation Intel® Core™ i7-6820HK	NVIDIA GeForce GTX 1070 8GB	No official claim https://www.notebookcheck.net/Aorus-X5-v6-Notebook-Review.179321.0.html 4 hours 9 minutes idle
Aorus	X5 v7	7th Generation Intel® Core™ i7-7820HK	NVIDIA GeForce GTX 1070	No official claim http://techreport.com/review/32246/aorus-x5-v7-gaming-laptop-reviewed/10 2.9 hours web browsing
Aorus	X5 MD	7th Generation Intel® Core™ i7-7820HK	NVIDIA GeForce GTX 1080	No official claim http://www.ultrabookreview.com/17254-aorus-x5-md-review/#a6 3 hours 10 minutes hours movie playback
ASUS	ROG GL553VD	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1050 2GB/4GB	No official claim https://pcverge.com/asus-rog-strix-gl553vd-laptop-review/ 4 hours 21 mins
ASUS	ROG GL553VE	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1050Ti 4GB	No official claim https://www.amazon.com/GL553VE-Gaming-i7-7700HQ-7200RPM-Keyboards/dp/B01MRW12RC 5 hours
ASUS	ROG GL502VS	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1070	No official claim https://www.engadget.com/2016/12/15/asus-rog-gl502-strix-review/ 6 hours
ASUS	ROG GL503 (ROG Strix Hero Edition) (ROG Strix SCAR Edition)	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1050	No official claim https://www.laptopmag.com/reviews/laptops/asus-rog-strix-gl503 3 hours 32 minutes (browsing web on Wi-Fi)
ASUS	ROG ZEPHYRUS (GX501)	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1080	6 hours web browsing

Brand	Model	Processor	Graphics Card	Battery life claims
ASUS	ZenBook Pro UX550VE	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1050 Ti	14 hours
ASUS	VivoBook Pro 15 N580VD	Intel Core i7-7700HQ Intel Core i5-7300HQ	NVIDIA GeForce GTX 1050	No official claim https://pcverge.com/asus-vivobook-pro-15-n580vd-db74t-gaming-laptop-review/ 4 to 5 hours
HP	OMEN 15t	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050	Up to 8 hours and 30 mins
HP	OMEN 15 -ce051nr	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050 Ti	Up to 7 hours
HP	HP Pavilion Power Laptop - 15t Quad	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050	10 hours 30 minutes FHD 8 hours 30 minutes UHD 9 hours video playback FHD 6 hours 45 minutes video playback UHD
HP	Zbook 15 G3	Intel Xeon E3-1545M Intel Xeon E3-1505M Intel Core i7-6820HQ Intel Core i7-6700HQ Intel Core i5-6440HQ	NVIDIA Quadro M2000M	No official claim http://www.notebookcheck.net/HP-ZBook-15-G3-Workstation-Review.162600.0.html 6h 26min WiFi Surfing
HP	Zbook Studio G3	Intel Xeon E3-1545M Intel Xeon E3-1505M Intel Core i7-6820HQ Intel Core i7-6700HQ	NVIDIA Quadro M1000M	No official claim No 3rd party claims
Lenovo	Ideapad 720S	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050 Ti	9 hours
Lenovo	Ideapad Y700	Intel Core i7-6700HQ	NVIDIA GeForce GTX 960M	No official claim
Lenovo	Legion Y520	7th Generation Intel® Core™ i7 Processor	NVIDIA GeForce GTX 1050 Ti	Up to 4 hours

Brand	Model	Processor	Graphics Card	Battery life claims
Lenovo	Legion Y720	7th Generation Intel® Core™ i7 Processor	NVIDIA GeForce GTX 1060	Up to 5 hours
Lenovo	ThinkPad P50	Intel Xeon E3-1505M v5	NVIDIA Quadro M2000M	No official claim http://www.notebookcheck.net/Lenovo-ThinkPad-P50-Workstation-Review.158713.0.html 14 hours (Battery Eater Reader's Test)
Lenovo	ThinkPad P51	Intel Core i7-7820HQ Intel Xeon E3-1535v6	NVIDIA Quadro M1200	No official claim https://www.laptopmag.com/reviews/laptops/lenovo-thinkpad-p51 8 hours 2 minutes
Sager	NP9155	8th Gen Intel® Core™ i7-8700 8th Gen Intel® Core™ i7-8700K	NVIDIA GeForce GTX 1070	No official claim http://www.xoticpc.com/sager-np9155-clevo-p750tm1-g.html 2+ Hours
Sager	NP8952	7th Gen Intel® Core™ i7-7700HQ	NVIDIA GeForce GTX 1070	No official claim http://www.xoticpc.com/sager-np8952-clevo-p650hp3.html 2+ hours
Sager	NP8157	7th Gen Intel® Core™ i7-7700HQ 7th Gen Intel® Core™ i7-7820HK	NVIDIA GeForce GTX 1070	No official claim http://www.xoticpc.com/sager-np8157-clevo-p650hs-g.html 2+ Hours
Sager	NP8156	7th Gen Intel® Core™ i7-7700HQ	NVIDIA GeForce GTX 1060	No official claim http://www.tomshardware.com/reviews/sager-np8156-gaming-laptop,4954-4.html 1.6 hours
Sager	NP6852	7th Gen Intel® Core™ i7-7700HQ	NVIDIA GeForce GTX 1050Ti	No official claim http://www.tomshardware.com/reviews/sager-np8156-gaming-laptop,4954-4.html 1.95 hours

Brand	Model	Processor	Graphics Card	Battery life claims
Sager	NP6850	7th Gen Intel® Core™ i7-7700HQ	NVIDIA GeForce GTX 1050	No official claim http://www.xoticpc.com/sager-np6850-clevo-n850hj.html 2+ hours
Sager	NP7850	7th Gen Intel® Core™ i7-7700HQ	NVIDIA GeForce GTX 1060	No official claim http://www.xoticpc.com/sager-np7850-clevo-n850hp6.html 3+ hours
Sager	NP5852	7th Gen Intel® Core™ i7-7700HQ	NVIDIA GeForce MX150	No official claim http://www.xoticpc.com/sager-np5852-clevo-n850hl.html 2+ hours
Sager	NP5855	7th Gen Intel® Core™ i7-7700HQ	NVIDIA GeForce GTX 1050	No official claim http://www.xoticpc.com/sager-np5855-clevo-n855hj.html 2+ hours
Sager	NP8950	7th Gen Intel® Core™ i7-7700HQ	NVIDIA GeForce GTX 1060	No official claim http://www.xoticpc.com/sager-np8950-clevo-p650hp3.html 2+ hours
Sager	NP8952	7th Gen Intel® Core™ i7-7700HQ	NVIDIA GeForce GTX 1070	No official claim http://www.xoticpc.com/sager-np8952-clevo-p650hp3.html 2+ hours
Samsung	Notebook Odyssey NP800G5M-X02US NP800G5M-X01US	Intel Core i7-7700HQ	NVIDIA GeForce GTX 1050	Up to 9.5 hours (MM2014)

Figure 3: Processor and graphics card information. All links and data current as of 02/22/2018.

ABOUT PRINCIPLED TECHNOLOGIES



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