

Overview

Models

Standard Smart AC Adapters

HP 40W Smart AC Adapter	H5W93AA
HP 45W Smart AC Adapter (4.5mm)	H6Y88AA
HP 65W Smart AC Adapter	ED494AA
HP 65W Smart AC Adapter (4.5mm) New!	H6Y89AA
HP 90W Smart AC Adapter	ED495AA
HP 90W Smart AC Adapter (4.5mm) New!	H6Y90AA
HP 230W Smart AC Adapter	AT895AA

Slim AC Adapters

HP 65W Slim Adapter	AX727AA
HP 65W Slim AC Adapter New!	H6Y82AA
HP 90W Slim Adapter	BT796AA
HP 90W Slim AC Adapter New!	H6Y83AA
HP 150W Smart AC Adapter	AL192AA
HP 230W Slim AC Adapter	H1D36AA

Mini AC Adapter

HP Mini 40W Smart AC Adapter	BU203AA
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Specialized Travel Adapters

HP Smart 65W Travel AC Adapter	AU155AA
HP 90W Smart Auto Adapter	ED493AA
HP 90W Slim Combo Adapter with USB	H4A41AA
HP 90W Slim Combo Adapter with USB New!	H6Y84AA
HP 90W Universal Adapter with USB (US only)	H4A43AA#ABA

Introduction

HP includes a high quality AC adapter with each HP Business Notebook, HP Ultrabook, HP Mini and HP Docking Station. Designed and tested to ensure optimum power support, the adapter also charges the notebook's internal battery simultaneously when connected.

As a notebook user, you may also need your adapter to be as flexible as your notebook. HP offers a variety of adapters for the many circumstance in which you may use your notebook. Whether you want something compact to carry, have a unique travel situation, or would just like another AC adapter for the office or home, HP offers an adapter for almost every computing situation.

Compatibility

Adapter

Compatible HP Business Notebooks

Standard Smart AC Adapters

HP 40W Smart AC Adapter (H5W93AA)	HP ElitePad Docking Station
HP 45W Smart AC Adapter (4.5mm) (H6Y88AA)	HP Spectre 13 Pro, HP Spectre x2 Pro, HP EliteBook Folio 1040, HP EliteBook 8XX, Folio 9470m, Revolve 810, HP 215, 240 G2, 245 G2, 250 G2, 255 G2 Notebook PCs

Overview

HP 65W Smart AC Adapter (ED494AA)

HP ProBook Notebook PCs, HP EliteBook 8XX, Folio 9470m, Revolve 810, 2XXXp, 84XXp, and 85XXp Notebook PCs, HP ZBook 14, EliteBook 84XXw Mobile Workstations, HP Mini 51XX, HP 31XXm, HP 240, 246, 248, 340, 250, 255, 430, 431, 435, 436, 450, 455, 630, 631, 635, 636, 650, and 655 Notebook PCs, HP mt20, mt40, mt41, and HP ProBook 6360t Thin Clients

HP 65W Smart AC Adapter (4.5mm) (H6Y89AA) **New!**

HP ChromeBook 14, HP Spectre 13 Pro, HP Spectre x2 Pro, HP EliteBook Folio 1040 Notebook PCs, HP 215, 240 G2, 242 G1, 245 G2, 250 G2, 255 G2 Notebook PCs
HP ProBook Notebook PCs, HP EliteBook 8XX, Folio 9470m, Revolve 810, 2XXXp, 84XXp, and 85XXp Notebook PCs, HP ZBook 14, EliteBook 84XXw Mobile Workstations, HP Mini 51XX, HP 31XXm, HP 240, 246, 248, 340, 250, 255, 430, 431, 435, 436, 450, 455, 630, 631, 635, 636, 650, and 655 Notebook PCs, HP mt20, mt40, mt41, and HP ProBook 6360t Thin Clients

HP 90W Smart AC Adapter (ED495AA)

HP ProBook Notebook PCs, HP EliteBook 8XX, 2XXXp, and 8XXXp, Folio 9470m, Revolve 810 Notebook PCs, HP ZBook 14, and EliteBook 84XXw, and 8540w Mobile Workstations, HP 31XXm, HP 240, 246, 248, 340, 250, 255, 430, 431, 435, 436, 450, 455, 630, 631, 635, 636, 650, and 655 Notebook PCs, HP mt20, mt40, mt41, HP ProBook 6360t Thin Clients

HP 90W Smart AC Adapter (4.5mm) (H6Y90AA) **New!**

HP ChromeBook 14, HP Spectre 13 Pro, HP Spectre x2 Pro, HP EliteBook Folio 1040 Notebook PCs, HP 215, 240 G2, 242 G1, 245 G2, 250 G2, 255 G2 Notebook PCs
HP ProBook Notebook PCs, HP EliteBook 8XX, 2XXXp, and 8XXXp, Folio 9470m, Revolve 810 Notebook PCs, HP ZBook 14, and EliteBook 84XXw, and 8540w Mobile Workstations, HP 31XXm, HP 240, 246, 248, 340, 250, 255, 430, 431, 435, 436, 450, 455, 630, 631, 635, 636, 650, and 655 Notebook PCs, HP mt20, mt40, mt41, HP ProBook 6360t Thin Clients

HP 230W Smart AC Adapter (AT895AA)

HP Zbook 15, 17, EliteBook 8570w, 8770w, 8560w, 8760w, 8540w, and 8740w Mobile Workstations

Slim AC Adapters

HP 65W Slim Adapter (AX727AA)

HP ProBook Notebook PCs, HP EliteBook 8XX, Folio 9470m, Revolve 810, 2XXXp, 84XXp, and 85XXp Notebook PCs, HP ZBook 14, EliteBook 84XXw Mobile Workstations, HP Pavilion 14 Chromebook, HP Folio13 Notebook PC, HP SpectreXT Pro Ultrabook™, HP ENVY Pro Ultrabook™, HP Mini 51XX, HP 31XXm, HP 240, 246, 248, 340, 250, 255, 430, 431, 435, 436, 450, 455, 630, 631, 635, 636, 650, and 655 Notebook PCs, HP mt20, mt40, mt41, and HP ProBook 6360t Thin Clients

Overview

HP 65W Slim AC Adapter (H6Y82AA) **New!**

HP ChromeBook 14, HP Spectre 13 Pro, HP Spectre x2 Pro, HP EliteBook Folio 1040 Notebook PCs, HP 215, 240 G2, 242 G1, 245 G2, 250 G2, 255 G2 Notebook PCs
HP ProBook Notebook PCs, HP EliteBook 8XX, Folio 9470m, Revolve 810, 2XXXp, 84XXp, and 85XXp Notebook PCs, HP ZBook 14, EliteBook 84XXw Mobile Workstations, HP Pavilion 14 Chromebook, HP Folio13 Notebook PC, HP SpectreXT Pro Ultrabook™, HP ENVY Pro Ultrabook™, HP Mini 51XX, HP 31XXm, HP 240, 246, 248, 340, 250, 255, 430, 431, 435, 436, 450, 455, 630, 631, 635, 636, 650, and 655 Notebook PCs, HP mt20, mt40, mt41, and HP ProBook 6360t Thin Clients

HP 90W Slim Adapter (BT796AA)

HP ProBook Notebook PCs, HP EliteBook 8XX, 2XXXp, and 8XXXp, Folio 9470m, Revolve 810 Notebook PCs, HP ZBook 14, and EliteBook 84XXw, and 8540w Mobile Workstations, HP Pavilion 14 Chromebook, HP Folio13 Notebook PC, HP SpectreXT Pro Ultrabook™, HP ENVY Pro Ultrabook™, HP 31XXm, HP 240, 246, 248, 340, 250, 255, 430, 431, 435, 436, 450, 455, 630, 631, 635, 636, 650, and 655 Notebook PCs, HP mt20, mt40, mt41, HP ProBook 6360t Thin Clients

HP 90W Slim AC Adapter (H6Y83AA) **New!**

HP ChromeBook 14, HP Spectre 13 Pro, HP Spectre x2 Pro, HP EliteBook Folio 1040 Notebook PCs, HP 215, 240 G2, 242 G1, 245 G2, 250 G2, 255 G2 Notebook PCs
HP ProBook Notebook PCs, HP EliteBook 8XX, 2XXXp, and 8XXXp, Folio 9470m, Revolve 810 Notebook PCs, HP ZBook 14, and EliteBook 84XXw, and 8540w Mobile 2Workstations, HP Pavilion 14 Chromebook, HP Folio13 Notebook PC, HP SpectreXT Pro Ultrabook™, HP ENVY Pro Ultrabook™, HP 31XXm, HP 240, 246, 248, 340, 250, 255, 430, 431, 435, 436, 450, 455, 630, 631, 635, 636, 650, and 655 Notebook PCs, HP mt20, mt40, mt41, HP ProBook 6360t Thin Clients

HP 150W Smart AC Adapter (AL192AA)

HP ProBook 6440b, 6445b, 6540b, and 6545b Notebook PCs, HP Zbook 15, EliteBook 8570w, 8560w, and 8540w Mobile Workstations

HP 230W Slim AC Adapter (H1D36AA)

HP Zbook 15, 17, EliteBook 8570w, 8770w, 8560w, 8760w, 8540w, and 8740w Mobile Workstations

Mini AC Adapter

HP Mini 40W Smart AC Adapter (BU203AA)

HP Mini 100e, 1XXX, 2XXX, and 5XXX

Specialized Travel Adapters

HP Smart 65W Travel AC Adapter (AU155AA)

HP ProBook Notebook PCs, HP EliteBook 8XX, Folio 9470m, Revolve 810, 2XXXp, 84XXp, and 85XXp Notebook PCs, HP ZBook 14, EliteBook 84XXw Mobile Workstations, HP Pavilion 14 Chromebook, HP Folio13 Notebook PC, HP SpectreXT Pro Ultrabook™, HP ENVY Pro Ultrabook™, HP Mini 51XX, HP 31XXm,

Overview

	HP 240, 246, 248, 340, 250, 255, 430, 431, 435, 436, 450, 455, 630, 631, 635, 636, 650, and 655 Notebook PCs, HP mt20, mt40, mt41, and HP ProBook 6360t Thin Clients
HP 90W Smart Auto Adapter (ED493AA)	HP ProBook Notebook PCs, HP EliteBook 8XX, 2XXXp, and 8XXXp, Folio 9470m, Revolve 810 Notebook PCs, HP EliteBook Mobile Workstations, HP 31XXm, HP 240, 246, 248, 340, 250, 255, 430, 431, 435, 436, 450, 455, 630, 631, 635, 636, 650, and 655 Notebook PCs, HP mt20, mt40, mt41, HP ProBook 6360t Thin Clients
90W Slim Combo Adapter with USB (H4A41AA)	HP ProBook Notebook PCs, HP EliteBook 8XX, 2XXXp, and 8XXXp, Folio 9470m, Revolve 810 Notebook PCs, HP EliteBook Mobile Workstations, HP Pavilion 14 Chromebook, HP Folio13 Notebook PC, HP SpectreXT Pro Ultrabook™, HP ENVY Pro Ultrabook™, HP 31XXm, HP 240, 246, 248, 340, 250, 255, 430, 431, 435, 436, 450, 455, 630, 631, 635, 636, 650, and 655 Notebook PCs, HP mt20, mt40, mt41, HP ProBook 6360t Thin Clients
90W Slim Combo Adapter with USB (H6Y84AA)	HP ChromeBook 14, HP Spectre 13 Pro, HP Spectre x2 Pro, HP EliteBook Folio 1040 Notebook PCs, HP 215, 240 G2, 242 G1, 245 G2, 250 G2, 255 G2 Notebook PCs HP ProBook Notebook PCs, HP EliteBook 8XX, 2XXXp, and 8XXXp, Folio 9470m, Revolve 810 Notebook PCs, HP EliteBook Mobile Workstations, HP Pavilion 14 Chromebook, HP Folio13 Notebook PC, HP SpectreXT Pro Ultrabook™, HP ENVY Pro Ultrabook™, HP 31XXm, HP 240, 246, 248, 340, 250, 255, 430, 431, 435, 436, 450, 455, 630, 631, 635, 636, 650, and 655 Notebook PCs, HP mt20, mt40, mt41, HP ProBook 6360t Thin Clients
HP 90W Universal Adapter with USB (H4A43AA#ABA; US only)	All HP Notebooks with 7.4mm connector barrel, plus notebooks by Acer, Asus, Compaq, Dell, Fujitsu, Lenovo, Samsung, Sony, and Toshiba.

Service and Support

The warranty period for HP Adapters is one year, part replacement. Additional support is available (North America only) seven days a week, 24 hours a day by phone as well as through online support forums.

HP Smart AC Adapters

HP Smart AC Adapters

The HP Smart AC Adapter is the adapter included with all HP Business Notebooks and HP Docking Stations. The Smart AC Adapter is intelligent by design because it detects and regulates the electrical current that is needed for your notebook or docking station. This unique feature helps protect your product from erratic electrical currents or a power surge. Also, although you may need a higher capacity adapter for a docking station or another notebook in the office, the Smart AC Adapter can be used with any notebook - it will adjust to the power to whatever your notebook needs.

- Add an additional adapter and always have one available in the office or at home - no need to carry it with you at all times
- Available in 65-watt, 90-watt, and 230-watt designs to enable optimum system performance

Technical Specifications

	HP 40W Smart AC Adapter (H5W93AA)	HP 45W Smart AC Adapter (H6Y88AA)
Dimensions	3.67 x 1.57 x 1.18 in (93 x 40 x 30 mm)	3.77 x 1.95 x .88 in (96 x 49.5 x 22.4 mm)
Weight	8.64 oz (245 g)	7.09 oz (201 g)
Input	90 to 265 VAC	90 to 265 VAC
Input Efficiency	84% min at 115 VAC	87% min at 115 VAC
Input frequency range	47 to 63 Hz	
Input AC current	1.0 A at 90 VAC	1.4 A at 90 VAC
	Output	
Output power	40W	45W
DC output	9.50V	
Hold-up time	5 msec at 115 VAC input	
Output current limit	5A	8A
Connector	HP 7.4mm Smart Barrel	HP 4.5mm Smart Barrel
	Environmental design	
Operating temperature	41° to 95° F (5° to 35° C)	41° to 95° F (5° to 35° C)
Non-operating (storage) temperature	-4° to 185° F (-20° to 85° C)	-4° to 185° F (-20° to 85° C)
Altitude	0 to 10,000 ft (0 to 3,048 m)	
Humidity	Up to 95%	Up to 95%
Storage humidity	Up to 95%	Up to 95%
EMI and safety certifications	Worldwide safety and EMC approvals including CE, UL, cUL, GS, Australian Electric Permit, RCM, NOM, CCC, KC, CU, S mark, BSMI, ISC, PSE, PSB, NRcan, Ukrain and SII	
Option kit contents	HP 40W Smart AC Adapter, power cord, warranty booklet	HP 45W Smart AC Adapter, 4.5mm to 7.4mm power DC dongle, power cord, warranty booklet

HP Smart AC Adapters

	HP 65W Smart AC Adapter (ED494AA)	HP 65W Smart AC Adapter (H6Y89AA) <i>New!</i>
Dimensions	4.17 x 1.85 x 1.1 in (106 x 47 x 28 mm)	4.17 x 1.85 x 1.1 in (106 x 47 x 28 mm)
Weight	0.62 lb (280 g)	0.62 lb (280 g)
Input	90 to 265 VAC	90 to 265 VAC
Input Efficiency	84% min at 115 VAC	84% min at 115 VAC
Input frequency range	47 to 63 Hz	
Input AC current	1.7 A at 90 VAC, 0.85 A at 180 VAC	1.7 A at 90 VAC, 0.85 A at 180 VAC
	Output	
Output power	65W	65W
DC output	18.5V	18.5V
Hold-up time	5 msec at 115 VAC input	
Output current limit	<5A, Over voltage protection- 29V max automatic shutdown	<5A, Over voltage protection- 29V max automatic shutdown
Connector	HP 7.4mm Smart Barrel	HP 4.5mm Smart Barrel
	Environmental design	
Operating temperature	41° to 95° F (5° to 35° C)	41° to 95° F (5° to 35° C)
Non-operating (storage) temperature	-4° to 185° F (-20° to 85° C)	-4° to 185° F (-20° to 85° C)
Altitude	0 to 10,000 ft (0 to 3,048 m)	
Humidity	Up to 95%	Up to 95%
Storage humidity	Up to 95%	Up to 95%
EMI and safety certifications	Worldwide safety and EMC approvals including CE, UL, CSA or cUL, GS, Australian Electric Permit, C-tick, NOM, CCC, KC, GOST, SABS, S mark, BSMI, ISC, PSE, PSB and SII.	
Option kit contents	HP 65W Smart AC Adapter, power cable, 65W non-Smart dongle, warranty booklet	HP 65W Smart AC Adapter, 4.5mm to 7.4mm power DC dongle, power cord, warranty booklet

HP Smart AC Adapters

	HP 90W Smart AC Adapter (ED495AA)	HP 90W Smart AC Adapter (H6Y90AA) <i>New!</i>
Dimensions	5.00 x 1.97 x 1.1 in (127 x 50 x 29 mm)	5.00 x 1.97 x 1.1 in (127 x 50 x 29 mm)
Weight	0.82 lb (370 g)	0.82 lb (370 g)
Input	100 to 240 VAC	
Input Efficiency	83% min at 115 VAC	
Input frequency range	47 to 63 Hz	
Input AC current	1.5 A at 90 VAC, 0.75 A at 180 VAC PFC Version 2.4 A at 90 VAC, 1.2 A at 180 VAC NON PFC Version	1.5 A at 90 VAC, 0.75 A at 180 VAC PFC Version 2.4 A at 90 VAC, 1.2 A at 180 VAC NON PFC Version
Output power	90W	90W
DC output	19.0V	19.0V
Hold-up time	5 msec at 115 VAC input	
Output current limit	<11A, Over voltage protection- 29V max automatic shutdown	<11A, Over voltage protection- 29V max automatic shutdown
Connector	HP 7.4 mm Smart Barrel	HP 4.5 mm Smart Barrel
Environmental design		
Operating temperature	32° to 104° F (0° to 40° C)	
Non-operating (storage) temperature	-4° to 149° F (-20° to 65° C)	
Altitude	0 to 10,000 ft (0 to 3,048 m)	
Humidity	20% to 80%	
Storage humidity	10% to 90%	
EMI and safety certifications	Worldwide safety and EMC approvals including CE, UL, CSA or cUL, GS, Australian Electric Permit, C-tick, NOM, CCC, KC, GOST, SABS, S mark, BSMI, ISC, PSE, PSB and SII.	
Option kit contents	HP 90W Smart AC Adapter, power cable, 90W non-Smart dongle, warranty booklet	HP 90W Smart AC Adapter, 4.5mm to 7.4mm power DC dongle, power cord, warranty booklet

HP Smart AC Adapters

	HP 230W Smart AC Adapter (AT895AA)
Dimensions w/o DC cable	7.87 x 3.94 x 1.69 in (200 x 100 x 43 mm)
Weight	2.8 lb (1,270 g)
Input	100 to 240 VAC
Input Efficiency	83% min at 115 VAC
Input frequency range	47 to 63 Hz
Input AC current	3.5 A at 90 VAC, 1.75 A at 180 VAC
	Output
Output power	230W
DC output	19.50V
Hold-up time	5 msec at 115 VAC input
Output current limit	<18A; Over voltage protection- 29V max automatic shutdown
Connector	HP 7.4mm Smart Barrel
	Environmental design
Operating temperature	32° to 104° F (0° to 40° C)
Non-operating (storage) temperature	-4° to 149° F (-20° to 65° C)
Altitude	0 to 10,000 ft (0 to 3,048 m)
Humidity	20% to 80%
Storage humidity	10% to 90%
EMI and safety certifications	Worldwide safety and EMC approvals including CE, UL, CSA or cUL, GS, Australian Electric Permit, C-tick, NOM, CCC, KC, GOST, SABIS, S mark, BSMI, ISC, PSE, PSB and SII.
Option kit contents	HP 230W Smart AC Adapter, power cable, warranty booklet

HP Slim Adapters

HP Slim Adapters

The HP Slim AC Adapters are 40% thinner than the standard notebook adapter.

Key benefits:

- Provides a convenient and portable power source for use in a mobile environment
- 65- and 90-watt versions include a convenient USB port for charging other accessories while you work

Technical Specifications

	HP 65W Slim Adapter (AX727AA)	HP 65W Slim AC Adapter (H6Y82AA) <i>New!</i>
Dimensions w/o DC cable	4.72 x 2.28 x 0.67 in (120 x 58 x 17 mm)	4.72 x 2.28 x 0.67 in (120 x 58 x 17 mm)
Weight	0.49 lb (222.6 g)	0.49 lb (222.6 g)
Input	100 to 240 VAC	100 to 240 VAC
Input efficiency	83% min at 115 VAC	83% min at 115 VAC
Input frequency range	47 to 63 Hz	
Input AC current	<1.7 A at 90 VAC	<1.7 A at 90 VAC
	Output	
Output power	65W	65W
DC output	19.50V +5.0%/-5.0%	
Hold-up time	5 msec at 115 VAC input	
Output current limit	<11A, Over voltage protection- 29V max automatic shutdown	<11A, Over voltage protection- 29V max automatic shutdown
Connector	3 pin/grounded, mates with interchangeable cords	
	Environmental design	
Operating temperature	32° to 104° F (0° to 40° C)	32° to 104° F (0° to 40° C)
Non-operating (storage) temperature	-4° to 149° F (-20° to 65° C)	-4° to 149° F (-20° to 65° C)
Altitude	0 to 10,000 ft (0 to 3,048 m)	
Humidity	20% to 80%	20% to 80%
Storage humidity	10% to 90%	10% to 90%
EMI and safety certifications	Worldwide safety and EMC approvals including CE, UL, CSA or cUL, GS, Australian Electric Permit, C-tick, NOM, CCC, KC, GOST, SABS, S mark, BSMI, ISC, PSE, PSB and SII.	
Option kit contents	HP Slim Adapter, Smart power connector cable, Ultrabook™ connector cable, AC power cord, documentation, quick setup poster and warranty	HP Slim Adapter, DC connector tips (4.5mm/7.4mm Smart, Ultrabook™), detachable cable, AC power cord, documentation, quick setup poster and warranty

HP Slim Adapters

	HP 90W Slim Adapter (BT796AA)	HP 90W Slim AC Adapter (H6Y83AA) New!
Dimensions w/o DC cable	5.43 x 2.28 x 0.67 in (138 x 58 x 17 mm)	5.43 x 2.28 x 0.67 in (138 x 58 x 17 mm)
Weight	0.49 lb (222.6 g)	0.49 lb (222.6 g)
Input	100 to 240 VAC	100 to 240 VAC
Input efficiency	87% min at 115 VAC	87% min at 115 VAC
Input frequency range	47 to 63 Hz	
Input AC current	<1.6 A at 90 VAC	<1.6 A at 90 VAC
	Output	
Output power	90W	90W
DC output	19.50V +5.0%/-5.0%	
Hold-up time	5 msec at 115 VAC input	
Output current limit	<11A, Over voltage protection- 29V max automatic shutdown	<11A, Over voltage protection- 29V max automatic shutdown
Connector	3 pin/grounded, mates with interchangeable cords	
	Environmental design	
Operating temperature	32° to 104° F (0° to 40° C)	
Non-operating (storage) temperature	-4° to 149° F (-20° to 65° C)	
Altitude	0 to 10,000 ft (0 to 3,048 m)	
Humidity	20% to 80%	
Storage humidity	10% to 90%	
EMI and safety certifications	Worldwide safety and EMC approvals including CE, UL, CSA or cUL, GS, Australian Electric Permit, C-tick, NOM, CCC, KC, GOST, SABS, S mark, BSMI, ISC, PSE, PSB and SII.	
Option kit contents	HP Slim Adapter, Smart power connector cable, Ultrabook™ connector cable, AC power cord, documentation, quick setup poster and warranty	HP Slim Adapter, DC connector tips (4.5mm/7.4mm Smart, Ultrabook™), detachable cable, AC power cord, documentation, quick setup poster and warranty

HP Slim Adapters

	HP 150W Smart AC Adapter (AL192AA)	HP 230W Smart AC Adapter (H1D36AA)
Dimensions w/o DC cable	6.65 x 2.76 x 1.57 in (16.8 x 8.2 x 2.54 mm)	7.9 x 3.9 x 1.02 (200.0 x 100 x 26 mm)
Weight	1.61 lb (730.3 g)	1.79 lb (811.9 g)
Input	90 to 265 VAC	90 to 265 VAC
Input efficiency	87% min at 115 VAC	87% min at 115 VAC
Input frequency range	47 to 63 Hz	
Input AC current	<2.7 A at 90 VAC	<3.5 A at 90 VAC
	Output	
Output power	150W	230W
DC output	19.50V +5.0%/-5.0%	
Hold-up time	5 msec at 115 VAC input	
Output current limit	<15A, Over voltage protection- 29V max automatic shutdown	<18A; Over voltage protection- 29V max automatic shutdown
Connector	HP 7.4mm Smart Barrel	
	Environmental design	
Operating temperature	41° to 95° F (5° to 35° C)	
Non-operating (storage) temperature	-4° to 185° F (-20° to 85° C)	
Altitude	0 to 10,000 ft (0 to 3,048 m)	
Humidity	10% to 95%	
Storage humidity	10% to 95%	
EMI and safety certifications	Worldwide safety and EMC approvals including CE, UL, CSA or cUL, GS, Australian Electric Permit, C-tick, NOM, CCC, KC, GOST, SABS, S mark, BSMI, ISC, PSE, PSB and SII.	
Option kit contents	HP Smart AC Adapter, AC power cord, documentation, quick setup poster and warranty	

HP Mini Adapters

HP Mini Adapter

The HP Mini 40W AC Adapter is the AC power adapter designed for use with select models of the HP Mini series of products. Sturdy and lightweight, the adapter is built with the same industry standard specification as the HP Smart AC Adapters that come with HP Business Notebooks and HP Docking stations.

- Add an extra power adapter and always have one available at home or in the office
- Light weight for easy transport when you're on the go
- Built in surge protection helps to guard your PC

Technical Specifications

HP Mini 40W Adapter (BU203AA)	Dimensions	3.67 x 1.57 x 1.12 in (93 x 40 x 28.5 mm)	
	Weight	0.44 lb (200g)	
	Input	90 to 265 VAC	
		Input efficiency	84% min at 115 VAC
		Input frequency range	47 to 63 Hz
	Output	Input AC current	1.1 A at 90 VAC
		Output power	40W
		DC output	19.5V
		Hold-up time	5 msec at 115 VAC input
		Output current limit	<5A, Over voltage protection- 29V max automatic shutdown
	Connector	3 pin/grounded, mates with interchangeable cords	
	Environmental design	Operating temperature	41° to 95° F (5° to 35° C)
		Non-operating (storage) temperature	-4° to 185° F (-20° to 85° C)
		Operating altitude	0 to 10,000 ft (0 to 3,048 m)
		Non-operating altitude	0 to 50,000 ft (0 to 15,240 m)
		Humidity	Up to 95%
		Storage humidity	Up to 95%
	EMI and safety certifications	Worldwide safety and EMC approvals including CE, UL, CSA or cUL, GS, Australian Electric Permit, C-tick, NOM, CCC, KC, GOST, SABS, S mark, BSMI, ISC, PSE, PSB and SII.	
	Option kit contents	HP Mini 40W Adapter, power cable, warranty booklet	

HP Smart Travel AC Adapters

HP Specialized Travel Adapter

The HP Smart Travel AC Adapter series offers the HP Smart 65W Travel AC Adapter, which is perfect for "road warriors" who are always on the go. The adapter is 40% thinner than the standard 65W adapter.

Key benefits:

- Provides a convenient and portable power source for use in a mobile environment
- Includes a convenient USB port for charging other accessories while you work
- Offers four international adapter plugs (U.S., EU, Japan, and UK) for usage almost anywhere in the world
- A stylish protective carrying case keeps everything together

Technical Specifications

HP Smart 65W Travel AC Adapter (AU155AA)	Dimensions	4.72 x 2.28 x 0.67 in (120 x 58 x 17 mm)
	Weight	0.49 lb (222.6 g)
	Input	100 to 240 VAC
	Input efficiency	83% min at 115 VAC
	Input frequency range	47 to 63 Hz
	Input AC current	1.7 A at 90 VAC, 0.85 A at 180 VAC
	Output	Output power 65W
		DC output 19.5V 5.0V
		Hold-up time 5 msec at 115 VAC input
		Output current limit <5A, Over voltage protection- 29V max automatic shutdown
	Connector	3 pin/grounded, mates with interchangeable cords
	Environmental design	Operating temperature 32° to 104° F (0° to 40° C)
		Non-operating (storage) temperature -4° to 149° F (-20° to 65° C)
		Altitude 0 to 10,000 ft (0 to 3,048 m)
		Humidity 20% to 80%
		Storage humidity 10% to 90%
EMI and safety certifications		Worldwide safety and EMC approvals including CE, UL, CSA or cUL, GS, Australian Electric Permit, C-tick, NOM, CCC, KC, GOST, SABS, S mark, BSMI, ISC, PSE, PSB and SIL.
Option kit contents		HP Smart 65W Travel AC Adapter, Smart power connector cable, Ultrabook™ connector cable, AC power cord, US/Japan/EU/UK duck heads, documentation, quick setup poster, warranty, and carrying case.

HP Combo Adapters

HP Combo Adapters

HP 90W Combo Adapters are designed for mobile workers who need an adapter while traveling in the car or by air.

HP 90W Slim Combo Adapter with USB

The HP 90W Slim Combo Adapter with USB can power up your notebook at home/office, in your car, or on the aircraft of any airline.

Key benefits:

- Powers your notebook when attached to an electrical outlet, or a power charger on automobile or aircraft
- Equipped with an automobile cigarette lighter connection cable that works in both 12V and 24V auto power chargers
- An integrated 2.0A USB port enables charging of tablets, phones or various mobile devices
- Interchangeable cabling supports cross range of HP Notebooks and Ultrabooks™

HP 90W Smart Auto Adapter

The HP 90W Smart Auto Adapter is designed to power your HP notebook in your car and charge the internal battery simultaneously. It works in both 12V and 24V automobile power chargers.

Key benefits:

- Provides a convenient and portable power source for use in a mobile environment
- Equipped with an adapter plug that works in the socket of most cars

Technical Specifications

HP 90W Smart Auto Adapter (ED493AA)	Dimensions	6.65 x 2.56 x 1.50 in (169 x 65 x 38 mm)	
	Weight	1.1 lb (500 g)	
	Input	10 to 32 VDC	
		Input efficiency	83% min at 15 VDC
	Output	Input DC current	11 A at 10 VDC
		Output power	90W
		DC output	19.0V
		Output current limit	
	Connector	DC: Cigarette/Air	
	Environmental design	Operating temperature	32° to 95° F (0° to 35° C)
		Non-operating (storage) temperature	-4° to 149° F (-20° to 65° C)
		Altitude	0 to 10,000 ft (0 to 3,048 m)
		Humidity	20% to 80%
	EMI and safety certifications	Storage humidity	10% to 90%
		Worldwide safety and EMC approvals including CE, UL, CSA or cUL, GS, Australian Electric Permit, C-tick, NOM, CCC, KC, GOST, SABS, S mark, BSMI, ISC, PSE, PSB and SII.	
		Option kit contents	HP 90W Smart Auto Adapter, power cable, 90W non-Smart dongle, warranty booklet

HP Combo Adapters

HP 90W Slim Combo Adapter with USB detachable DC cable + tips (H6Y84AA)	Dimensions	5.94 x 2.75 x 1.00 in (151 x 70 x 25 mm)
	Weight	0.88 lb (400 g)
	AC input	90 to 264 VAC
		Input frequency range 47 to 63 Hz
	DC input	10 to 32 VDC
		Input DC current 12.5 at 10VDC
	Output	Output power 100W
		DC output 19.5V
		5V / 2A (USB)
	Environmental design	Operating temperature 32° to 95° F (0° to 35° C)
		Non-operating (storage) temperature -4° to 185° F (-20° to 85° C)
		Altitude 0 to 19,685 ft (0 to 5,000 m)
		Humidity 20% to 95%
	EMI and safety certifications	Storage humidity 5% to 95%
		Worldwide safety and EMC approvals including CE, UL, CSA or cUL, GS, Australian Electric Permit, C-tick, NOM, CCC, KC, GOST, SABS, S mark, BSMI, ISC, PSE, PSB and SII.
	Option kit contents	HP 90W Slim Combo Adapter, DC connector tips (4.5mm/7.4mm Smart, Ultrabook™), detachable DC cable, AC power cord, auto/truck cigarette lighter cable, replacement fuses, quick setup poster, warranty, and carrying case.

HP 90W Slim Combo Adapter with USB (H4A41AA)	Dimensions	5.94 x 2.75 x 1.00 in (151 x 70 x 25 mm)
	Weight	0.88 lb (400 g)
	AC input	90 to 264 VAC
		Input frequency range 47 to 63 Hz
	DC input	10 to 32 VDC
		Input DC current 12.5 at 10VDC
	Output	Output power 100W
		DC output 19.5V
		5V / 2A (USB)
	Environmental design	Operating temperature 32° to 95° F (0° to 35° C)
		Non-operating (storage) temperature -4° to 185° F (-20° to 85° C)
		Altitude 0 to 19,685 ft (0 to 5,000 m)
		Humidity 20% to 95%
	EMI and safety certifications	Storage humidity 5% to 95%
		Worldwide safety and EMC approvals including CE, UL, CSA or cUL, GS, Australian Electric Permit, C-tick, NOM, CCC, KC, GOST, SABS, S mark, BSMI, ISC, PSE, PSB and SII.

HP Combo Adapters

Option kit contents

HP 90W Slim Combo Adapter, AC power cord, auto/truck cigarette lighter cable, detachable DC cables (2), replacement fuses, quick setup poster and warranty.

HP Universal Adapter

HP Universal Adapter

The HP Universal 90W USB Adapter is a multi-brand compatible power adapter designed to work with virtually every brand of laptop, and includes 12 interchangeable tips for easy connectivity.

Key benefits:

- Built-in USB port allows charging of tablets and various mobile devices
- Vigorous testing standards for strict quality control and compatibility
- Built-in surge protection and third prong for grounding
- Increased flexibility for use with multiple notebooks at home, in the office, or on the road

Technical Specifications

HP 90W Universal Adapter with USB (H4A43AA#ABA; US only)	Dimensions	5.51 x 2.17 x 1.22 in (140.5 x 55 x 31 mm)
	Weight	0.88 lb (400 g)
	Input	100 to 240 VAC
	Input efficiency	83% min at 115 VAC
	Input frequency range	50 to 60 Hz
	Input AC current	1.8 A at 90 VAC
	Output	Output power 100W
		DC output 19.5V (DC); 5V (USB)
		Hold-up time 5 msec at 115 VAC/240 VAC input
		Output current limit <11A (DC), < 4.5A (USB)
	Connector	3-pin/grounded, mates with interchangeable cords
	Environmental design	Operating temperature 32° to 95° F (5° to 35° C)
		Non-operating (storage) temperature -4° to 149° F (-20° to 85° C)
		Altitude 0 to 10,000 ft (0 to 3,048 m)
		Humidity Up to 95%
		Storage humidity Up to 95%
	EMI and safety certifications	Worldwide safety and EMC approvals including CE, UL, CSA, GS, Argentina, Australia, C-TICK, NOM, CCC, KC, GOST, SABS, S mark, BSMI, ISC, PSE, PSB and SII
	Option kit contents	HP Universal 90W USB Adapter, 12 DC connector tips, AC power cord, Quick Setup Guide, warranty booklet

HP Universal Adapter

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