

Overview

HP AC Adapters for HP Business Notebooks

Models

Standard Smart AC Adapters

HP 45W Smart AC Adapter (4.5mm)	H6Y88AA
HP 65W Smart AC Adapter (4.5mm)	H6Y89AA
HP 90W Smart AC Adapter (4.5mm)	H6Y90AA
HP 150W Smart AC Adapter (4.5mm)	W2F74AA
HP 200W Smart AC Adapter (4.5mm)	W2F75AA

Slim AC Adapters

HP 65W Slim AC Adapter	H6Y82AA
HP 90W Slim AC Adapter	H6Y83AA

Specialized Travel Adapters

HP 65W Smart Travel AC Adapter	JOE43AA
HP 90W Slim Combo Adapter with USB	H6Y84AA

Adapter

HP 15W mUSB Power Adapter	K9Q38AA
HP 45W USB-C™ AC Adapter	V5Y26AA
HP 45W USB-C G2 Power Adapter New!	1HE07AA
HP 65W USB-C Power adapter New!	1HE08AA
HP 45W USB-C LC Power Adapter New!	1MZ01AA

Introduction

HP includes a high quality AC adapter with each HP Business Notebook, HP Ultrabook, 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.

Overview

Compatibility

Adapter

Standard Smart AC Adapters

HP 45W Smart AC Adapter (4.5mm) (H6Y88AA)

Compatible HP Business Notebooks

HP Spectre 13 Pro, HP Spectre x2 Pro, HP EliteBook Folio 1040, Folio 9470m
HP EliteBook 1040 G1, G2, 1020 G1, 800 G1, G2, G3 Series 700 G1, G2, G3, Series , 600 G1, G2 Series,
HP Revolve 810 G1, G2, G3 Series
HP Elite Tablet x2 1011 G1, HP Pro Tablet 610 G1,
HP 430, 440 450 G2 Series
HP 215, 240 G2, 245 G2, 250 G2, 255 G2 Notebook PCs
HP ProBook 11 G1 Education G1, G2,
HP Pro x2 612 G1
HP Stream 11 G1, G2
HP ProBook x2 410 G1
HP ChromeBook 11 EE, G3, G4

HP 65W Smart AC Adapter (4.5mm) (H6Y89AA)

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 (4.5mm) (H6Y90AA)

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 150W 4.5mm Smart AC Adapter (W2F74AA)

HP ZBook Studio G3, HP ZBook 15 G3 and HP ZBook 15u G3 mobile workstations

HP 200W 4.5mm Smart AC Adapter (W2F75AA)

HP ZBook 17 G3

Slim AC Adapters

HP 65W Slim AC Adapter (H6Y82AA)

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

Overview

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 AC Adapter (H6Y83AA)

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

Specialized Travel Adapters

HP 65W Smart Travel AC Adapter (J0E43AA)

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

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 15W mUSB Power Adapter (K9Q38AA)

HP Chromebook 11

HP 45W USB-C Power Adapter (V5Y26AA)

HP x2 1012 G1 Tablet, HP EliteBook 1030 G1

Service and Support



Overview

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.

Technical Specifications

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
- designed to enable optimum system performance

	HP 45W Smart AC Adapter (H6Y88AA)
Dimensions	3.77 x 1.95 x .88 in (96 x 49.5 x 22.4 mm)
Weight	7.09 oz (201 g)
Input	90 to 265 VAC
Input Efficiency	87% min at 115 VAC
Input frequency range	47 to 63 Hz
Input AC current	1.4 A at 90 VAC
	Output
Output power	45W
DC output	
Hold-up time	5 msec at 115 VAC input
Output current limit	8A
Connector	HP 4.5mm 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	Up to 95%
Storage humidity	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 45W Smart AC Adapter, 4.5mm to 7.4mm power DC dongle, power cord, warranty booklet

Technical Specifications

	HP 65W Smart AC Adapter (ED494AA)	HP 65W Smart AC Adapter (H6Y89AA)
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

Technical Specifications

HP 90W Smart AC Adapter (H6Y90AA)	
Dimensions	5.00 x 1.97 x 1.1 in (127 x 50 x 29 mm)
Weight	0.82 lb (370 g)
Input	100 to 240 VAC
Input Efficiency	88% at 115VAC 89% at 230 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
Output power	90W
DC output	19.0V
Hold-up time	5 msec at 115 VAC input
Output current limit	<11A, Over voltage protection- 29V max automatic shutdown
Connector	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 SIL.
Option kit contents	HP 90W Smart AC Adapter, 4.5mm to 7.4mm power DC dongle, power cord, warranty booklet

	HP 150W 4.5mm Smart AC Adapter (W2F74AA)	HP 200W 4.5mm Smart AC Adapter (W2F75AA)
Dimensions	6.02 x 2.5 x 0.88 in (15 x 66 x 22 mm)	6.77 x 3.77 x 1 in (172 x 96 x 25.4 mm)
Weight	0.705 lb (320g)	1.92 lb (875g)
Input	90 to 265 VAC RMS.	90 to 265 VAC RMS.
Input Efficiency	88% min at 115 VAC	88% at 115 VAC input and 89% at 230 VAC
Input frequency range	47 – 63 Hz AC.	
Input AC current	2.7 A at 90 VAC	2.7 A at 90 VAC
	Output	
Output power	150W	200W
DC output	19.50V +5.0%/-5%	19.50V +5.0%/-5%
Hold-up time	5 msec at 115 VAC input	
Output current limit	<-15 A, Over voltage protection- 29V max automatic shutdown	<-16 A, Over voltage protection- 29V max automatic shutdown
Connector	HP 4.5 mm Smart Barrel	HP 4.5 mm Smart Barrel
	Environmental design	
Operating temperature	0 to 35°C.	0 to 35°C.

Technical Specifications

Non-operating (storage) temperature	-20 to 85°C.	-20 to 85°C.
Altitude	Operating: The power supply can be operated at 5,000 m above sea level. Non-Operating: 50,000 feet above sea level.	
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.	
Warranty	1 year	
Option kit contents	AC Power brick, Country Power cord, 4.5mm to 7.4mm power dongle, Quick Set up Guide, Warranty Notification	AC Power brick, Country Power cord, 4.5mm to 7.4mm power dongle, Quick Set up Guide, Warranty Notification

Technical Specifications

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
- Includes a convenient USB port for charging other accessories while you work

HP 65W Slim AC Adapter (H6Y82AA)	
Dimensions w/o DC cable	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
Output	
Output power	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
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, DC connector tips (4.5mm/7.4mm Smart, Ultrabook™), detachable cable, AC power cord, documentation, quick setup poster and warranty

HP 90W Slim AC Adapter (H6Y83AA)	
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Technical Specifications

Dimensions w/o DC cable	5.43 x 2.28 x 0.67 in (138 x 58 x 17 mm)
Weight	0.49 lb (222.6 g)
Input	100 to 240 VAC
Input efficiency	87% min at 115 VAC
Input frequency range	47 to 63 Hz
Input AC current	<1.6 A at 90 VAC
	Output
Output power	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
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, DC connector tips (4.5mm/7.4mm Smart, Ultrabook™), detachable cable, AC power cord, documentation, quick setup poster and warranty

Technical Specifications

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

HP 65W Smart Travel AC Adapter (JOE43AA)	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		
	Output	Input frequency range	47 to 63 Hz		
		Input AC current	1.7 A at 90 VAC, 0.85 A at 180 VAC		
		Output power	65W		
		DC output	19.5V 5.0V		
		Hold-up time	5 msec at 115 VAC input		
	Connector	Output current limit	<5A, Over voltage protection- 29V max automatic shutdown		
			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, DC connector tips (4.5mm/7.4mm Smart, Ultrabook™), detachable cable, AC power cord, US/Japan/EU/UK duck heads, documentation, quick setup poster, warranty, and carrying case.				

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 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		
	DC input	Input frequency range	47 to 63 Hz	
			10 to 32 VDC	

Technical Specifications

Output	Input DC current	12.5 at 10VDC
	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 SIL.	
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 15W mUSB Power Adapter

Keep working and charge your HP Chromebook 11 with the compact HP 15W mUSB Power Adapter.

Simply connect one end of the adapter to your HP Chromebook 11's mini USB connector, and plug the other end into a standard outlet. The compact size fits easily in your notebook's carrying case.

Rest easy with a one-year parts replacement limited warranty

HP 15W mUSB Power Adapter K9Q38AA

Dimensions	Weight	3.54 x 1.96 x 1.10 in (90 x 50 x 28 mm)
		0.227 lb (0.103 kg)
Output	Input efficiency	Greater than 76.77% at 115Vac & 230Vac
	Input frequency range	47 – 63 Hz
	Input AC current	Shall be less than 0.6 Amperes
	Output power	15.75 WATT
	DC output	5.25V +5.0%/-5.0%
	Hold-up time	3 milliseconds
	Output current limit	Maximum at 3.8 Amperes
Connector	Micro USB (JAE DX4PW05HS1)	
Environmental design	Operating temperature	0 to 35°C
	Non-operating (storage) temperature	-20 to 85°C.
	Altitude	10,000 feet above sea level
	Humidity	95% Humidity
EMI and safety certifications	Storage humidity	0 to 35°C
	IEC 61000-4-2	
	BLUE ANGEL	
	NORDIC SWAN (V5.1)	
	CHINA SEPA	
CHINA CECP (APPLY WITH WHOLE SYSTEM LEVEL)		
TAIWAN GREEN MARK		
JAPAN PC GREEN		

Technical Specifications

KOREA KOECO
ENERGY STARTM 5.2
EPEAT
UL 60950-1

Option kit contents

1pcs QSP card, 1pcs Notice card, 1pcs Warranty card, 1pcs Adapter, 1pcs Duck head,

HP 45W USB-C Power Adapter

Power and charge your notebook or tablet1 from its USB-C™ port with the HP 45W USB-C™ AC Adapter. Connect one end of the adapter to the USB-C™ port on your device1, and plug the AC head into any available wall outlet. Get a one-year limited warranty. [USB Type-C™ and USB-C™ are trademarks of USB Implementers Forum.](#)

HP 45W USB-C Power Adapter V5Y26AA

Dimensions

66mm x 66mm mm x 28.5 mm

Input Efficiency

78.71% min at 115V/230V(option) @5V/2A
87.41% min at 115V/230V(option) @12V/3A
87.73% min at 115V/230V(option) @15V/3A

Input frequency range

47 to 63 Hz

Input AC current

1.4 A at 90 VAC and maximum load

Output power

45W max

DC output

5V/12V/15V

Hold-up time

5msec at 115 VAC input
< 5A

Output current limit

Over voltage protection:
5V less than 7.25V
12V less than 16.85V
15V less than 20.5V

Connector

3 pin/grounded, mates with type-C connector

Environmental Design

Operating

0° to 35° C

temperature

Non-operating (storage) temperature

-20° to 85° C

Altitude

0 to 5,000 m

Humidity

0% to 95%

Storage Humidity

0% to 95%

Safety Certifications

CE Mark - EMC directives; Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE; Reliability - failure rate of less than 0.1% annually within the first three years of operation.

Technical Specifications

HP 45 USB-C G2 Power Adapter 1HE07AA

Dimensions	62 x 62 x 28.5 mm
Weight	220g +/- 10g
Input Efficiency	<p>Average Efficiency of 25%, 50%, 75%, 100% load condition with 115Vac/230Vac Spec:</p> <p>5V : 81.5% 9V : 86.7% 10V : 87.5% 12V : 87.8% 15V : 87.8% 20V : 87.8%</p>
Input frequency range	47 ~ 63Hz
Input AC current	Max. 1.4 A at 90 Vac
Output power	5V/15W 9V/27W 10V/37.5W 12V/45W 15V/45W 20V/45W
DC output	5V / 9V / 10V / 12V / 15V / 20V
Hold-up time	5ms at 115 Vac input
Output current limit	<5 A
Connector	USB Type-C™
Environmental Design	<p>Operating temperature 32°F to 95°F (0° to 35°C)</p> <p>Non-operating (storage) temperature -4°F to 185°F (-20° to 85°C)</p> <p>Altitude 0 to 16,400 ft (0 to 5000m)</p> <p>Humidity 20% to 95%</p> <p>Storage Humidity 10% to 95%</p>
Safety Certifications	<p>Eg:</p> <p>*CE Mark - full compliance with LVD and EMC directives</p> <p>* Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals –</p> <p>C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE.</p> <p>* MTBF - over 200,000 hours at 25°C ambient condition.</p>

Technical Specifications

HP 65W USB-C Power adapter 1HE08AA

Dimensions	74 x 74 x 28.5 mm
Weight	245g +/- 10g
Input Efficiency	81.5% min at 115 Vac/ 230Vac @ 5V/3A 86.7% min at 115 Vac/ 230Vac @ 9V/3A 88% min at 115 Vac/ 230Vac @ 10V/5A 88% min at 115 Vac/ 230Vac @ 12V/5A 89% min at 115 Vac/ 230Vac @ 15V/4.33A 89% min at 115 Vac/ 230Vac @ 20V/3.25A
Input frequency range	47 ~ 63Hz
Input AC current	1.7 A at 90 VAC and maximum load
Output power	65W
DC output	5V/9V/10V/12V/15V/20V
Hold-up time	5ms at 115 Vac input
Output current limit	<8 A
Connector	USB Type-C™
Environmental Design	Operating temperature 32°F to 95°F (0°to 35°C) Non-operating (storage) temperature -4°F to 185°F (-20°to 85°C) Altitude 0 to 16,400 ft (0 to 5000m) Humidity 5% to 95% Storage Humidity 5% to 95%
Safety Certifications	Eg: *CE Mark - full compliance with LVD and EMC directives * Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. * MTBF - over 100,000 hours at 25°C ambient condition.

HP 45W USB-C LC Power Adapter 1MZ01AA

Dimensions	94 x 40 x 26.5 mm
Weight	192.5g +/-10%
Input Efficiency	Average Efficiency of 25%, 50%, 75%, 100% load condition with 115Vac/230Vac Spec: 5V : 78.71% 12V : 87.41% 15V : 87.73%

Technical Specifications

	Input frequency range	47 ~ 63Hz
	Input AC current	Max. 1.4 A at 90 Vac
Output	Output power	5V/10W 12V/36W 15V/45W
	DC output	5V/12V/15V
	Hold-up time	5ms at 115 Vac input
	Output current limit	<5 A
Connector		USB Type-C™
Environmental Design	Operating temperature	32°F to 95°F (0°C to 35°C)
	Non-operating (storage) temperature	-4°F to 185°F (-20°C to 85°C)
	Altitude	0 to 16,400 ft (0 to 5000m)
	Humidity	20% to 95%
	Storage Humidity	10% to 95%
Safety Certifications	Eg:	
		*CE Mark - full compliance with LVD and EMC directives
		* Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE.
		* MTBF - over 200,000 hours at 25°C ambient condition.

Summary of Changes

Date of change:	Version 1 to 2		Description of change:
July 16, 2014	From v30 to v31	Changed	Version number to match PB/Concentra
November 11, 2014	From v31 to v32	Added	HP 15W mUSB Power Adapter
December 4, 2014	From v32 to v33	Added	Specs for the HP 15W mUSB Power Adapter and removed products no longer offered.
February 8, 2016	From v33 to v34	Updated	Compatibility for the 45W Smart AC Power adapter (H6Y88AA)
February 29, 2016	From v34 to v35	Added	HP 150W Smart AC Adapter (4.5mm) HP 200W Smart AC Adapter (4.5mm)
March 8, 2016	From v35 to v36	Added	HP 45W USB-C™ AC Adapter
		Deleted	HP 40W Smart AC Adapter HP 90W Smart Auto Adapter HP 90W Slim Combo Adapter with USB HP 230W Smart AC Adapter
July 15, 2016	From v36 to v37	Changed	Specs for HP 90W Smart AC Adapter (4.5mm) H6Y90AA
August 11, 2016	From v37 to v38	Changed	Altitude specs HP 150W Smart AC Adapter (4.5mm)
April 7, 2017	From v38 to v39	Added	HP 45 USB-C G2 Power Adapter HP 65W USB-C Power adapter HP 45W USB-C LC Power Adapter

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