



Universal Notebook Power Adapter

Automatic Adjustable Voltage, 7 Output Levels, 90 W, USB

Part No.: **101646**

Provides a power solution for mobile computing needs.

Give mobile computing a boost with reliable, high-performance power when and where it's needed with this Universal Notebook Power Adapter by Manhattan. Eight DC output plug tips match popular Acer, Asus, Compaq, Dell, Fujitsu, Gateway, HP, Sony, Toshiba, IBM/Lenovo and more. Automatic voltage detection and adjustment removes the guesswork and reduces the risk of damage to sensitive mobile computers and other portable devices. There is also a convenient built-in USB charging port. Ideal for power supply replacement, upgrade or spare power needs.

Features:

- Automatically selects among 7 voltage output levels to provide a broad mobile power solution — from 12 V to 24 V
- Convenient, single power source with USB port for notebook computers and other portable devices
- Compatible with most notebook computers from Acer, Asus, Compaq, Dell, HP, Lenovo, Toshiba and more
- Convertible (8) plug tips ensure proper polarization and fit
- Overload, overcurrent and overheat protection
- Lightweight and compact design easily stores for travel
- Three-Year Warranty

Specifications:

Standards and Certifications

- FCC
- CE
- WEEE
- RoHS

Power Cable

- UL
- cUL

Input Characteristics

For more information on Manhattan products, consult your local dealer or visit www.manhattan-products.com.

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- AC rated voltage: 100 – 240 V
- AC voltage range: 90 – 264 V
- Frequency range: 50 – 60 Hz (± 3 Hz)
- Current: 2.1 A max
- No-load power consumption: ≈ 0.5 W

Output Characteristics

- Rated voltage: 12 / 15 / 16 / 18.5 / 19 / 19.5 / 24 V (autoset by output tips)
- Peak load current: 6 A (constant current)
- Rated power: 90 watts maximum
- Ripple and noise: $\approx 2\%$ of output voltage (peak-to-peak)
- USB output voltage: 5.0 V $\pm 5\%$
- USB output current : 1.0 A
- USB output peak current : 2.1 A

Protection Characteristics

- Short circuit: auto recovery mode
- Primary current protection: an internal fuse on the AC input line
- Dielectric withstand voltage, primary (input AC short)-to-secondary (output DC short): 3000 VAC, 5 mA, 1 minute
- Leakage current ≈ 0.25 mA
- Insulation resistance, input to output: 10 M Ω at 500 VDC
- Reinforced insulation system, primary-to-ground and primary-to-secondary

Physical

- DC plug tips: 4.0 x 1.7 x 9.5 mm (19 V); 4.8 x 1.7 x 9.5 mm (18.5 V); 5.5 x 1.7 x 12 mm (19 V); 5.5 x 2.5 x 12 mm (19 V); 6.3 x 3.0 x 12 mm (15 V); 6.4 x 4.3 x 14 mm (16 V); 7.4 x 5.0 x 12 mm (18.5 V); 7.9 x 5.5 x 12 mm (20 V)
- Cable (combined length): 1.7 m (5.6 ft.)
- Dimensions: 122 x 64 x 19 mm (4.8 x 2.5 x 0.75 in.)
- Weight: 277.8 g (9.8 oz.)

Package Contents

- Universal Notebook Power Adapter
- 8 DC plug tips
- Instructions



