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VOLTCRAFT® - TOP PERFORMANCE IN EVERY WAY

“For more than 25 years, our product range has been dynamically adapting to the constant changes in the industry. We commit to offering first-class quality to our customers while delivering an excellent cost-performance ratio. This philosophy remains the cornerstone of Voltcraft’s success.”

COMBO 90 **NOTEBOOK POWER PACK**

Nº 51 23 07

CE

VERSION 08/09

The Combo 90 is a budget-priced replacement or additional power pack for notebooks or other devices and can be connected to a mains outlet or cigarette lighter socket. The additional USB output also allows hassle-free power supply for USB devices.

HIGHLIGHTS

Short-circuit and overload protection //

Safety ensured by polarity reversal protected output plugs //

High degree of efficiency and low power consumption //

Stabilised output voltage //

AC/DC input selection //



GENERAL SPECIFICATIONS

POWER OUTPUT: 90 W **INPUT VOLTAGE:** 100 - 240 V/AC (mains); 11 - 16 V/DC (cigarette lighter socket) **OUTPUT VOLTAGE:** 16/19/20 V/DC; 5 V/DC (USB output) **TYPE:** Clocked **WEIGHT:** 550 g

TECHNICAL DATA

Input voltage:	Wall socket: 100 to 240 V/AC, 50/60 Hz, 1.5 A max. Cigarette lighter: 11 to 16 V/DC, 10 A max.
Output voltage:	16 V/DC: 4.74 A max. 19 V/DC: 4.74 A max. 20 V/DC: 4.5 A max. 5 V/DC: 1.0 A max.
Output power:	90 W (continuous) / 120 W (max.) 76 W (with blue resistor) 90 W (with green/black resistor) 5 W (USB power port)
Efficiency:	≥ 87 % (100 V/AC / at full load) ≥ 89 % (240 V/AC / at full load)
Operating temperature:	0 °C to 40 °C
Dimensions (W x H x D):	65 x 155 x 30 mm
Weight:	550 g

Compatibility list

Notebook brand	Voltage (V)	Resistor colour	Connector
Acer	19	Green	C, D
Compaq	19	Green	C, E, S
Dell	19	Green	C
Fujitsu-Siemens	19	Green	C
Gateway	19	Green	C, D
HP	19	Green	C, E, S
IBM	16	Blue	C
Lenovo	20	Black	L
Sony	16	Blue	A
Sony	19	Green	A
Toshiba	16	Blue	B, C
Toshiba	19	Green	A
Samsung	16	Blue	I
Samsung	19	Green	I

Output plugs

Type	Outer diameter (mm)	Inner diameter (mm)	Polarity
A	6.5	4.5	⊖-⊕⊕
B	6.3	3.0	⊖-⊕⊕
C	5.5	2.5	⊖-⊕⊕
D	5.5	2.1	⊖-⊕⊕
E	4.75	1.7	⊖-⊕⊕
I	5.5	3.4	⊖-⊕⊕
L	7.9	5.6	⊖-⊕⊕
S	7.4	5.0	⊖-⊕⊕

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