



VOLTCRAFT®

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** **SUPPLY UNIT**

Nº 51 25 16

CE

VERSION 08/10

This product serves as a replacement or additional power supply for notebooks and other devices. The additional USB output allows hassle-free power supply for USB devices (e.g. cell phones or MP3 players). The COMBO 90 can be powered via a mains outlet or a car’s cigar lighter receptacle. It is also protected against short-circuiting and overload.

HIGHLIGHTS

For all common notebooks //

Ultra small, light and efficient //

Input 100 - 240 V/AC or 11 - 16 V/DC //

Power output 90 W //

Additional USB output //

**Stabilised output voltage
5, 16, 19 and 20 V/DC //**

**Voltage switchable
by plug-in cards //**

AC/DC input selection //

Low power consumption //

**For power outlet, car and
airplane usage //**



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. (with blue resistor) 19 V/DC ; 4.74 A max. (with green resistor) 20 V/DC ; 4.5 A max. (with black resistor) 5 V/DC ; 1.0 A max. (USB power port)
Output power:	90 W (continuous) / 120 W (max.)
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

OUTPUT PLUG SPECIFICATIONS

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	⊖-⊕

COMPATIBILITY LIST

Notebook brand	Voltage (V)	Resistor colour	Output plug
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

PACKAGE CONTENT

Notebook power supply unit // 8 x output plug // 3 x voltage adjustment resistor // Power cord // Car plug cable // Carrying bag // Operating instructions

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