

Switchmode Power Supplies

DT Series

Conforms to IEC 60950



Applications

- Audio
- Bluetooth/WLAN
- Digital cameras
- Communication accessories
- Measurement and weighing technology
- MPEG Player
- Modems DSL, ADSL, VDSL
- Safety technology
- Laboratory equipment

Characteristics

- Universal input 100 to 240 V AC
- Constant voltage, current limited
- Low leakage current
- Low standby power
 - ≤ 0.5 Watts (DT 12, DT 60)
 - ≤ 0.75 Watts (DT 50)
- Continuously short circuit proof

Technical data

Input voltage
Input current100 to 200 V AC ($\pm 10\%$)

300 mA (DT 12)

1100 mA (DT 50)

1600 mA (DT 60)

Frequency

50 to 60 Hz

Efficiency

75% typ. at full load

EMC

Conforms to EN 55014,
EN 55022/B, FCC 47 part 15, EN 61000-3-2,
EN 61000-4-2, EN 61000-4-3, EN 61000-4-4,
EN 61000-4-5, EN 61000-4-6, EN 61000-4-11
 $\pm 5\%$

Output voltage tolerance

Environmental specification

Operating temperature

0 to 40° C at maximum load

Storage temperature

-10 to 70° C

Humidity

10 % to 95 % non condensing

Input transient susceptibility

Complies with IEC 61000 requirements

Safety specification

Standards

Fulfils Class II SELV for the following
applications: EN 60950/IEC 60950, UL 60950,
CSA 950 (cUL), VDE, CE label

Reliability specification

MTBF calculation

200.000 hours at maximum load
and an ambient temperature of 25° C
(in accordance with MIL-HDBK-217)

Mechanical specification

Weight approx.

135 g (DT 12)

295 g (DT 50)

260 g (DT 60)

Plug connector

AC input:

2-pole IEC 320, C8-socket

DC output:

Universal output plug system

For power cords see page 26

DT 12



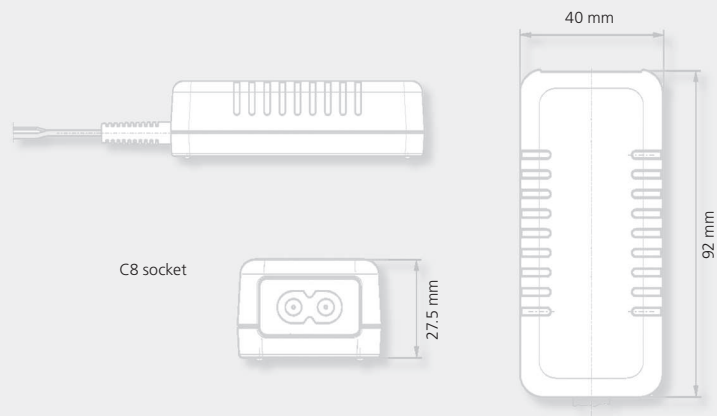
DT 50



DT 60

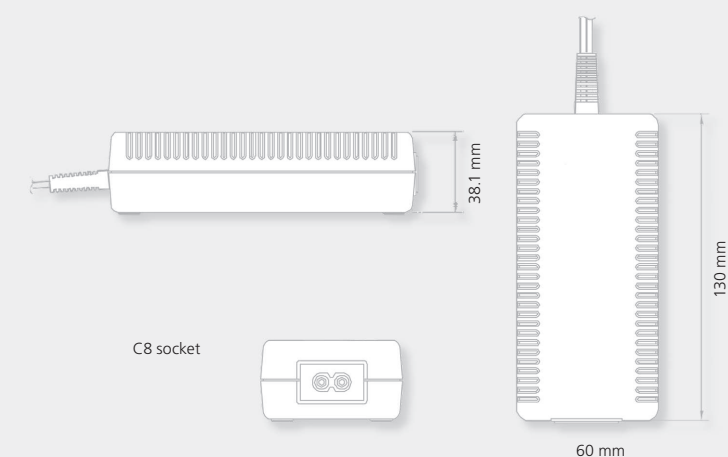


12 Watts



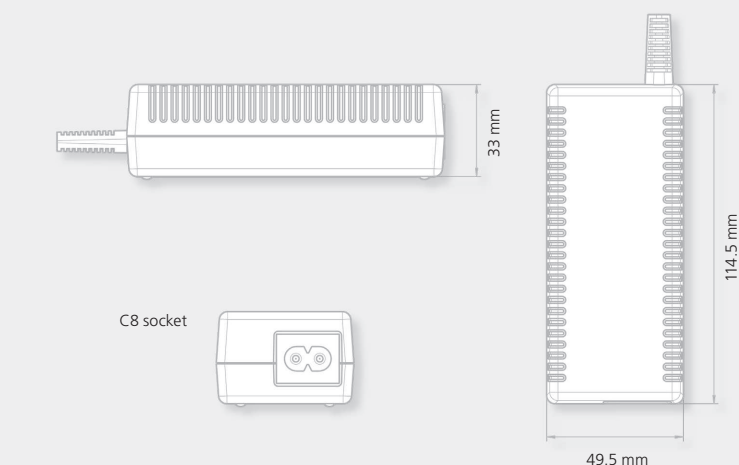
Output data			Worldwide
Voltage	Current	Ripple Voltage	Order No.
5 V	2000 mA	120 mV pp	1890577
6 V	1700 mA	120 mV pp	1890578
7.5 V	1400 mA	115 mV pp	1890579
9 V	1200 mA	135 mV pp	1890581
12 V	1000 mA	180 mV pp	1890580
15 V	800 mA	112 mV pp	1890584
18 V	660 mA	135 mV pp	1890583
24 V	500 mA	300 mV pp	1890582
48 V	250 mA	480 mV pp	1812311

50 Watts



Output data			Worldwide
Voltage	Current	Ripple Voltage	Order No.
5 V	5000 mA	120 mV pp	1827398
12 V	3800 mA	120 mV pp	1827399
15 V	3000 mA	120 mV pp	1890946
24 V	2200 mA	120 mV pp	1827400

60 Watts



Output data			Worldwide
Voltage	Current	Ripple Voltage	Order No.
12 V	5000 mA	250 mV pp	1830993
15 V	4000 mA	250 mV pp	1830994
18 V	3300 mA	250 mV pp	1830995
24 V	2500 mA	250 mV pp	1831363

available 2009