FRIWO®

Switchmode Power Supplies

DT Series

All products conform to IEC 61558 and 60950

Applications

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

Characteristics

- Universal input 100 to 240 V AC
- Constant voltage, current limited
- Low standby power
  ≤ 0.3 Watts (DT 12) resp.
  ≤ 0.5 Watts (DT 60, DT 100, DT 150)
- Continuously short circuit proof
- High efficiency

Technical data

Input voltage	100 to 240 V AC (± 10 %)
Input current	300 mA (DT 12), 1500 mA (DT 100), 1600 mA (DT 60), 2000 mA (DT 150)
Frequency	50 to 60 Hz
Efficiency	up to 91% typ. at full load
EMC	Conforms to EN 55011, 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
Output voltage tolerance	±2% (without consideration of the output lead)

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 according to following standards: IEC/EN/UL 60950, DT 100 and DT 150 fulfils class I.

Reliability specification

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

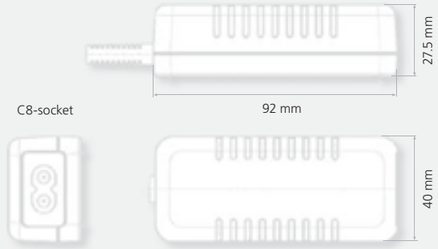
Mechanical specification

Weight approx.	135 g (DT 12), 260 g (DT 60), 500 g (DT 100), 622 g (DT 150)
Plug connector	AC input: 2-pole IEC 320, C8-socket (DT 12, DT 60) C14-socket (DT 100, DT 150) DC output (not DT 150): Universal output plug system (page 34)

For power cords see page 34

DT 12 FW 7402

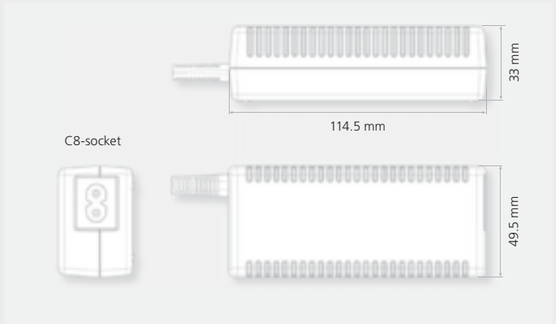
12 Watts



Output data			Worldwide
Voltage	Current	Ripple Voltage	Order No.
5 V	**2000 mA**	**200 mV pp**	**1893922**
5,9 V	**1700 mA**	**200 mV pp**	**1893923**
7,5 V	**1400 mA**	**180 mV pp**	**1893924**
9 V	**1200 mA**	**135 mV pp**	**1893925**
12 V	**1000 mA**	**180 mV pp**	**1893926**
15 V	**800 mA**	**112 mV pp**	**1893927**
18 V	**660 mA**	**135 mV pp**	**1893928**
24 V	**500 mA**	**300 mV pp**	**1893929**
48 V	**250 mA**	**480 mV pp**	**1893930**

DT 60 DT 60

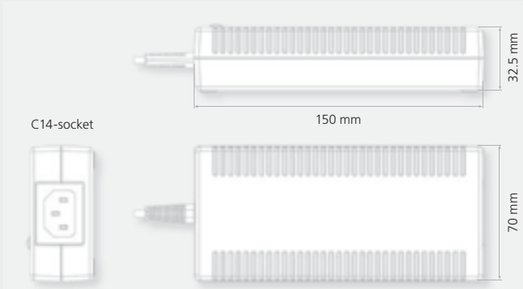
60 Watts



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**

DT 100 DT 100

100 Watts



Output data			Worldwide
Voltage	Current	Ripple Voltage	Order No.
24 V	**4170 mA**	**240 mV pp**	**1891551**

DT 150 DT 150

150 Watts

Output data			Worldwide
Voltage	Current	Ripple Voltage	Order No.
24 V	**6250 mA**	**240 mV pp**	**1894781**