

Switchmode Power Supplies Medical Series

All products conform to IEC 60601-1

Applications

- Blood analyser
- Patient monitors
- Measuring equipment
- Laboratory equipment
- Inhalers
- Patient lifts

Characteristics

- Universal input 100 to 240 V AC
- Constant voltage, current limited
- Green LED indicator
- Leakage current $\leq 10 \mu\text{A}$ (DT 80 $\leq 100 \mu\text{A}$)
- Low standby power
 ≤ 0.5 Watts (DT 12)
 ≤ 0.75 Watts (DT 50 / 80)
- Continuously short circuit proof

Technical data

Input voltage Input current

100 to 240 V AC ($\pm 10\%$)
300 mA (DT 12), 1100 mA (DT 50),
1500 mA (DT 80)

Frequency

50 to 60 Hz

Efficiency

80 % 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
 $\pm 5\%$

Output voltage tolerance

Environmental specification

Operating temperature

0 to 40° C at maximum load

Storage temperature

-40 to 70° C

Humidity

5 % to 95 % non condensing

Input transient susceptibility

Complies with IEC 61000 requirements

Safety specification

Standards

Fulfils Class II SELV for the following applications: IEC 60601-1, UL 2601, VDE, CE label, fulfils medical application class B/BF/CF (DT 12/50) and B/BF (DT 80)

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), 350 g (DT 80)

Plug connector

AC input:
2-pole IEC 320, C8-socket
DC output:
Universal output plug system (page 30)

For power cords see page 30

DT 12 FW 7401M



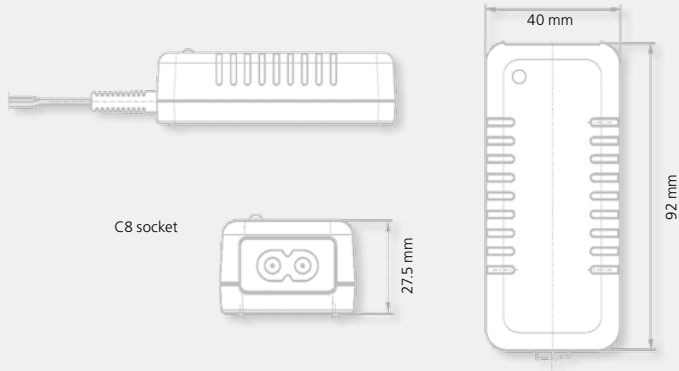
DT 50 FW 7405M



DT 80 FW 7488M

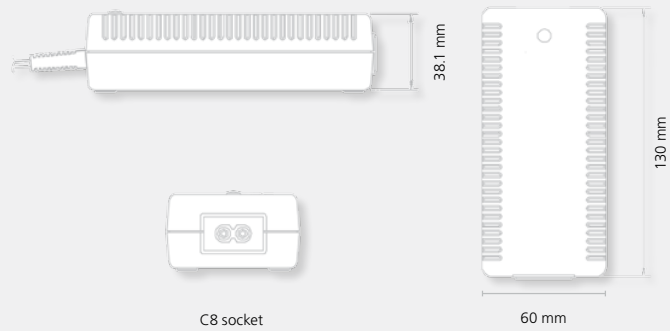


12 Watts



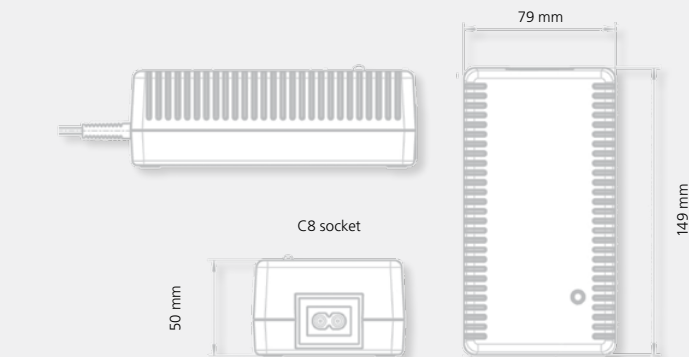
Output data			Worldwide
Voltage	Current	Ripple Voltage	Order No.
5 V	2000 mA	120 mV pp	1826391
6 V	1700 mA	120 mV pp	1826392
7.5 V	1400 mA	115 mV pp	1826393
9 V	1200 mA	135 mV pp	1826394
12 V	1000 mA	180 mV pp	1826395
15 V	800 mA	112 mV pp	1826396
18 V	660 mA	135 mV pp	1826397
24 V	500 mA	300 mV pp	1826398

50 Watts



Output data			Worldwide
Voltage	Current	Ripple Voltage	Order No.
5 V	5000 mA	120 mV pp	1890649
12 V	3800 mA	120 mV pp	1890650
15 V	3000 mA	120 mV pp	1890839
24 V	2200 mA	120 mV pp	1825898

80 Watts



Output data			Worldwide
Voltage	Current	Ripple Voltage	Order No.
12 V	5500 mA	120 mV pp	1890865
15 V	5000 mA	120 mV pp	1828339
24 V	3300 mA	120 mV pp	1890981