



Switchmode Power Supplies Medical Series

with exchangeable primary adapters
(MPP 15/30)

All products conform to IEC 60601-1

Applications

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

Characteristics

- Universal input 100 to 240 V AC
- Constant voltage, current limited
- Green LED indicator
- Low standby power
- Continuously short circuit proof
- Exchangeable primary adapters (MPP 15/30)
- 2 x MOPP
- Low leakage current $\leq 10 \mu\text{A}$

Technical data

Input voltage 100 to 240 V AC ($\pm 10\%$)
Input current 200 to 80 mA (PP 8)
 350 to 150 mA (MPP 15)
 700 to 350 mA (MPP 30)

Frequency 50 to 60 Hz
Efficiency 80 % typ. at full load, PP 8 75 %
EMC Conforms to

Output voltage tolerance $\pm 2\%$ (without consideration of the output lead)

Environmental specification

Operating temperature 0 to 40° C at maximum load
Storage temperature -40 to 70° C, PP 8 (-20 to 70° C)
Humidity 5 % to 95 % non condensing
Input transient susceptibility Complies with IEC 61000 requirements

Safety specification

Standards Fulfils class II, SELV according to following standards:
 ES 60601, IEC 60601-1, UL 2601, CE label, fulfils medical application class B/BF/CF

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

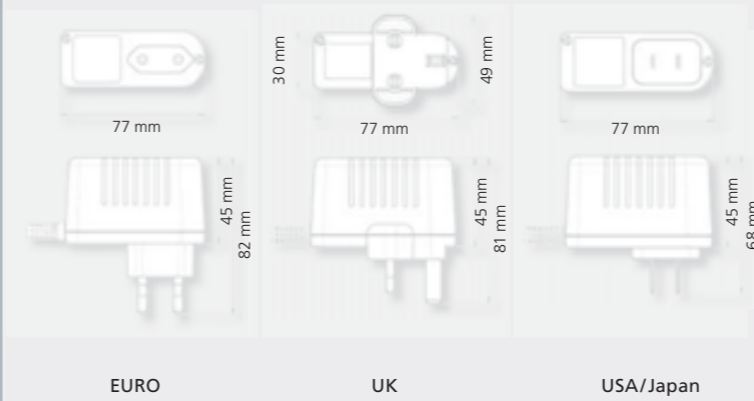
Weight approx. 110 g (PP 8), 160 g (MPP 15), 255 g (MPP 30)
Plug connector AC input:
 FRIWO exchangeable mains plug system:
 EURO, UK, USA/Japan, Australia, IEC
 PP 8: EURO, UK, USA/Japan
 DC output:
 Universal output plug system (page 34)

For primary adapters see page 34

PP 8 FW 7333SM



8 Watts



Output data		Ripple	EURO	USA/Japan	UK
Voltage	Current	Voltage	Order No.	Order No.	Order No.
5 V	1300 mA	200 mV pp	1829500	1829589	1829571
6 V	1150 mA	180 mV pp	1829501	1829590	1829572
7.5 V	900 mA	150 mV pp	1829502	1829591	1829573
9 V	800 mA	150 mV pp	1829503	1829592	1829574
12 V	700 mA	150 mV pp	1829504	1829593	1829575
15 V	530 mA	150 mV pp	1829505	1829594	1829576
18 V	440 mA	150 mV pp	1829506	1829595	1829577
24 V	330 mA	150 mV pp	1829507	1829596	1829578

MPP 15 FW 7555M



15 Watts

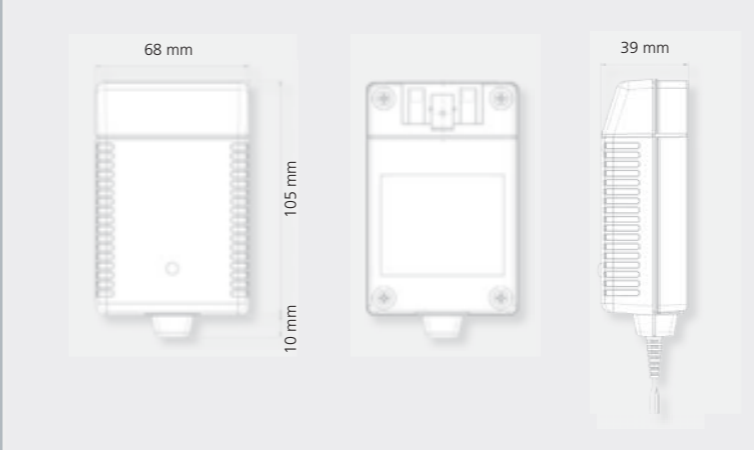


Output data			Worldwide
Voltage	Current	Ripple Voltage	Order No.
5 V	2400 mA	75 mV pp	1883256
6 V	2100 mA	75 mV pp	1883257
7.5 V	1700 mA	75 mV pp	1883258
9 V	1500 mA	90 mV pp	1883259
12 V	1250 mA	120 mV pp	1883260
15 V	1000 mA	150 mV pp	1883261
18 V	840 mA	180 mV pp	1883262
24 V	625 mA	240 mV pp	1883263

MPP 30 FW 7362M



30 Watts



Output data			Worldwide
Voltage	Current	Ripple Voltage	Order No.
5 V	4000 mA	75 mV pp	1883264
6 V	3600 mA	75 mV pp	1883265
7.5 V	3300 mA	75 mV pp	1883266
9 V	3000 mA	90 mV pp	1883267
12 V	2500 mA	100 mV pp	1883268
15 V	2000 mA	100 mV pp	1883269
18 V	1660 mA	120 mV pp	1883270
24 V	1250 mA	120 mV pp	1883271