

# Switchmode Power Supplies

## MPP Series

with exchangeable primary adapters  
All products conform to IEC 60950



### Applications

- Weighing technology
- WLAN modems
- Bluetooth
- Communication accessories
- Measurement technology
- LED applications
- Laser technology
- IT accessories
- Safety technology

### Characteristics

- Universal input 100 to 240 V AC
- Constant voltage, current limited
- Exchangeable primary adapters
- Low leakage current  $\leq 10 \mu\text{A}$
- Low standby power  $\leq 0.3$  Watts (MPP 6) resp.  $\leq 0.5$  Watts (MPP 15, MPP 30)
- Continuously short circuit proof

**MPP 15** FW 7555



### Technical data

#### Input voltage

100 to 240 V AC ( $\pm 10\%$ )

#### Input current

150 mA (MPP 6),  
400 mA (MPP 15),  
700 mA (MPP 30)

#### Frequency

50 to 60 Hz

#### Efficiency

80 % typ. at full load, resp. 75 % (MPP 6)

#### 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

$\pm 5\%$

### 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

Fulfills 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.

100 g (MPP 6), 160 g (MPP 15), 255 g (MPP 30)

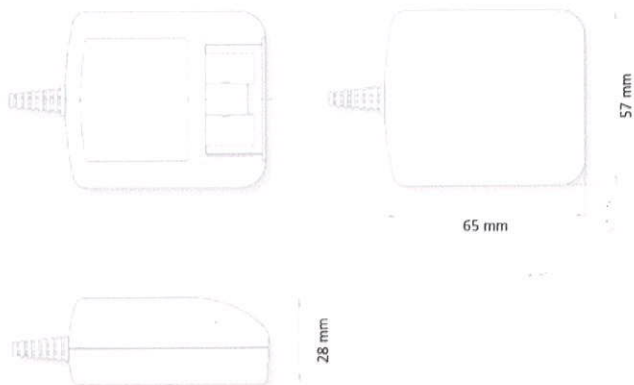
#### Plug connector

AC input:  
FRIWO exchangeable mains plug system:  
EURO, UK, USA/Japan, Australia, IEC  
DC output:  
Universal output plug system (page 30)

**MPP 30** FW 7362

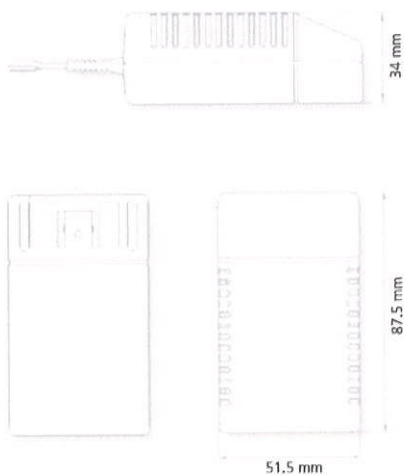


### 5 Watts



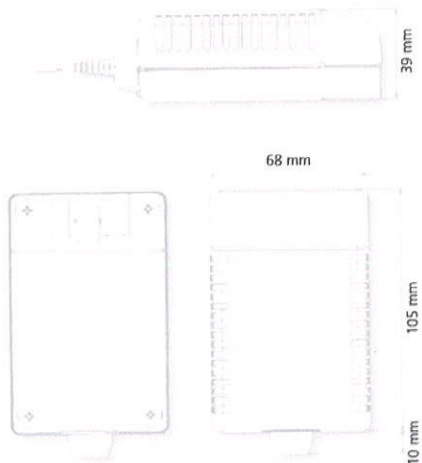
Output data			Worldwide
Voltage	Current	Ripple Voltage	Order No.
5 V	1000 mA	200 mV pp	1814926
6 V	850 mA	180 mV pp	1814927
7.5 V	650 mA	150 mV pp	1814928
9 V	550 mA	150 mV pp	1814929
12 V	450 mA	150 mV pp	1814930
15 V	360 mA	150 mV pp	1814931
18 V	300 mA	150 mV pp	1814932
24 V	220 mA	150 mV pp	1814933

### 15 Watts



Output data			Worldwide
Voltage	Current	Ripple Voltage	Order No.
5 V	2400 mA	75 mV pp	1812037
6 V	2100 mA	75 mV pp	1812036
7.5 V	1700 mA	75 mV pp	1812038
9 V	1500 mA	90 mV pp	1811970
12 V	1250 mA	120 mV pp	1811971
15 V	1000 mA	150 mV pp	1812039
18 V	840 mA	180 mV pp	1812040
24 V	625 mA	240 mV pp	1812041

### 30 Watts



Output data			Worldwide
Voltage	Current	Ripple Voltage	Order No.
5 V	4000 mA	75 mV pp	1811463
6 V	3600 mA	80 mV pp	1811464
7.5 V	3300 mA	90 mV pp	1811465
9 V	3000 mA	90 mV pp	1811466
12 V	2500 mA	100 mV pp	1806413
15 V	2000 mA	100 mV pp	1811467
18 V	1660 mA	120 mV pp	1811483
24 V	1250 mA	80 mV pp	1811484