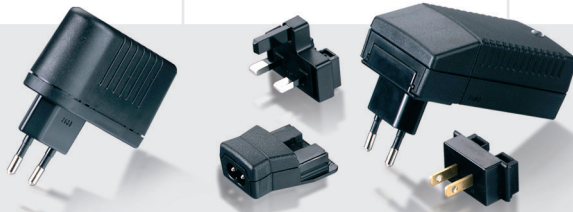


Switchmode Power Supplies – Plug-In

PP 8 Medical · MPP 15/30 Medical

8-30 Watts



Applications

- Inhalers
- Measuring instruments
- Laboratory equipment
- Patient lifts
- Patient monitors

Characteristics

- Low leakage current $\leq 10 \mu\text{A}$
- Universal input 100 - 240 V AC
- EMC conformity
- Constant voltage, current regulated
- Interchangeable primary adapters (MPP15/30)
- Light weight, compact size
- Green LED indicator
- Continuously short circuit proof
- Worldwide use

Safety specification

- Standards: fulfills class II SELV for the following applications: IEC 60601-1, UL 2601, VDE, CE, fulfills medical application class B/BF/CF

PP 8 EURO / UK / USA

Output data	
Voltage	Current
3 V	1700 mA
5 V	1300 mA
6 V	1150 mA
7.5 V	900 mA
9 V	800 mA
12 V	700 mA
15 V	530 mA
18 V	440 mA
24 V	330 mA

MPP 15

Output data	
Voltage	Current
5 V	2400 mA
6 V	2100 mA
7.5 V	1700 mA
9 V	1500 mA
12 V	1250 mA
15 V	1000 mA
18 V	840 mA
24 V	625 mA

MPP 30

Output data	
Voltage	Current
5 V	4000 mA
6 V	3600 mA
7.5 V	3300 mA
9 V	3000 mA
12 V	2500 mA
15 V	2000 mA
18 V	1660 mA
24 V	1250 mA

Switchmode Power Supplies

DT 12/50 Medical

12-50 Watts



Applications

- Inhalers
- Measuring instruments
- Laboratory equipment
- Patient lifts
- Patient monitors

Characteristics

- Low leakage current $\leq 10 \mu\text{A}$
- Universal input 100 - 240 V AC
- EMC conformity
- Constant voltage, current regulated
- Light weight, compact size
- Green LED indicator
- Continuously short circuit proof

Safety specification

- Standards: fulfills class II SELV for the following applications: IEC 60601-1, UL 2601, VDE, CE, fulfills medical application class B/BF/CF

DT 12*

Output data	
Voltage	Current
5 V	2000 mA
6 V	1700 mA
7.5 V	1400 mA
9 V	1200 mA
12 V	1000 mA
15 V	800 mA
18 V	660 mA
24 V	500 mA

DT 50*

Output data	
Voltage	Current
5 V	6000 mA
12 V	3800 mA
15 V	3200 mA
24 V	2200 mA

* all versions with IEC socket (2 contact, IEC 320, C8)

Switchmode Chargers – Plug-In

PP 8 · MPP 15/30

8-50 Watts



In the field of battery chargers, FRIWO offers a wide range of chargers for lead acid, nickel-cadmium, nickel-metal hydride and lithium ion batteries.

Applications

- Inhalers
- Measuring instruments
- Laboratory equipment
- Patient lifts
- Patient monitors

Safety specification

- Standards: fulfills class II SELV for the following applications: IEC 60601-1, IEC 60335, UL 2601, VDE, CE, fulfills medical application class B/BF/CF

Characteristics

- Low leakage current $\leq 10 \mu\text{A}$ or $\leq 100 \mu\text{A}$
- Universal input 100 - 240 V AC
- EMC conformity
- Exact termination of the respective charging cycle
- Interchangeable primary adapters (MPP15/30)
- Light weight and compact size
- Green LED indicator
- Continuously short circuit proof
- Worldwide use
- Low standby power

The following numbers of battery cells are covered by our platform products:

- Lead Acid 3 - 12 Cells
- NiCd/NiMH 4 - 10 Cells
- Li-Ion 2 - 4 Cells

The ideal power supply for medical high-tech equipment

- Demanding laboratory and clinic electronics and medical applications for household use call for high-quality power supplies and chargers complying with the EN 60601-1 standard for medical technology.
- FRIWO is the world's largest manufacturer of high-quality plug-in power supplies and battery chargers for all these fields of application.
- The standard medical programme for plug-in power supplies and chargers from FRIWO covers a power range from 8 to 50 watts and thanks to the low leakage current of $\leq 10 \mu\text{A}$ even satisfy the standards for medical technology in accordance with EN 60601-1, Class CF.
- All products from this platform have a wide range input and are available in a number of housing variants: Plug-in housing, desktop housing and plug-in housing with interchangeable primary adapters.
- Apart from these inexpensive and rapidly available standard products that can be used worldwide, FRIWO also develops complete customised solutions from the design through to the finished product. For OEM enquiries, all products are also available in open frame versions.

Your advantages

- Kow-how from the leader on the market
- Flexibility to match the customer's individual needs
- Certified safety and environmental compatibility
- RoHS and WEEE - Ready
- High production capacity
- Worldwide applicability and approval of all products

FRIWO – Proficiency in standards and developing individual solutions.

FRIWO - The best prescription for your medical instrumentation

- All FRIWO products are designed for both stationary and mobile medical equipment.
- The strict criteria and standards demanded in medical technology are naturally observed by FRIWO, for some applications even far surpassed. For no-load losses, FRIWO already meets future directives for reduced energy consumption at no-load even today. Laws and directives are also becoming more and more important with respect to the responsibility for environmental protection and existing resources. Here again, FRIWO already meets the demands of the Electrical and Electronic Appliance Act - ElektroG - based on the EU Directives even today.

Highlights at a glance:

- Low leakage current $\leq 10 \mu\text{A}$
- Fulfills medical application class B / BF / CF
- IEC 60601-1, UL 2601, VDE, CE approved
- Universal input 100 - 240 V AC
- Green LED indicator
- Continuously short circuit proof
- Light weight and compact size
- High efficiency
- Low standby power

FRIWO – Proficiency in standards and developing individual solutions.

The best prescription for your medical instrumentation

FRIWO power supply systems



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