

## Switchmode Power Supplies

# Open Frame

All products conform to IEC 60601-1, 60950

### Applications

- Laboratory equipment
- Patient lifts
- Label printers
- Measuring equipment
- Laser
- Lighting
- Automation
- Climate chambers
- Electric tools

### Characteristics

- Universal input 100 to 240 V AC
- Constant voltage, current limited
- Low standby power
- High Efficiency
- Continuously short circuit proof
- Leakage current  $\leq 100 \mu\text{A}$
- Small package

### Technical data

<b>Input voltage</b>	100 to 240 V AC ( $\pm 10 \%$ )
<b>Input current</b>	1900 mA
<b>Frequency</b>	50 to 60 Hz
<b>Efficiency</b>	$\geq 87 \%$
<b>Standby Losses</b>	$\leq 0.5$ Watts
<b>EMC</b>	Conforms to EN 55011, EN 55022/B, FCC47 Teil15, 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
<b>Output voltage tolerance</b>	$\pm 5 \%$
<b>Power factor</b>	$\geq 0.9$

### Environmental specification

<b>Operating temperature</b>	0 to 60° C at maximum load, up to 70° C at 75 % load
<b>Storage temperature</b>	-20 to +70° C
<b>Humidity</b>	5 % to 95 % non condensing
<b>Input transient susceptibility</b>	Complies with IEC 61000 requirements

### Safety specification

<b>Standards</b>	Fulfils Class I SELV for the following applications: IEC 60601, UL 2601, VDE, CE label, fulfils medical application class B/BF
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### Reliability specification

<b>MTBF calculation</b>	200,000 hours at maximum load and an ambient temperature of 25° C (in accordance with MIL-HDBK-217)
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### Mechanical specification

<b>Weight approx.</b>	475 g
<b>Plug connector</b>	Molex connector style input: 0010634037 Output: 0026604100

# FRIWO – Your preferred partner

FRIWO's longterm experience and continuously increasing know-how in development of power supplies and chargers make us an ideal partner for customized solutions. By means of latest technologies and production processes, FRIWO designs, develops, tests, and produces high innovative and tailor-made power supplies and chargers for any individual requirement.

In many cases, standard products are not sufficient to fulfil the customers' special mechanical, thermal or functional demands of their device. Thus using standard products, unwanted compromises need to be made for an optimal functionality of the end application. As a specialist in the development and production of customised solutions, FRIWO ensures that every unit will be realised according to customers' specification and that it will have the optimal functional and technical features needed.

Every application rises new challenges for the development of power supplies, e.g.:

- high efficiency rate / low standby losses
- individual design, e.g. determined by application field
- high reliability
- long-life cycle
- specific output voltage and current values
- high packing density
- special environment conditions

**OF 150** OF150



# for customized solutions



Upon your request, we develop cost-optimised products which are exactly made to fulfil your specific requirements. With short development cycles, personal technical advice and a direct line to our engineers, we supply reliable and long-life power supplies for your target markets. In our development of customised solutions, we always consider the existing legal standards, and even more – the future coming standards concerning efficiency rate and standby losses. To protect our environment and to use our resources optimally, FRIWO mainly focuses on developing energy-efficient units.

FRIWO disposes of a great variety of standard housings. Nevertheless, our engineers are ready to design any other new housing solution suitable for our customers' applications.

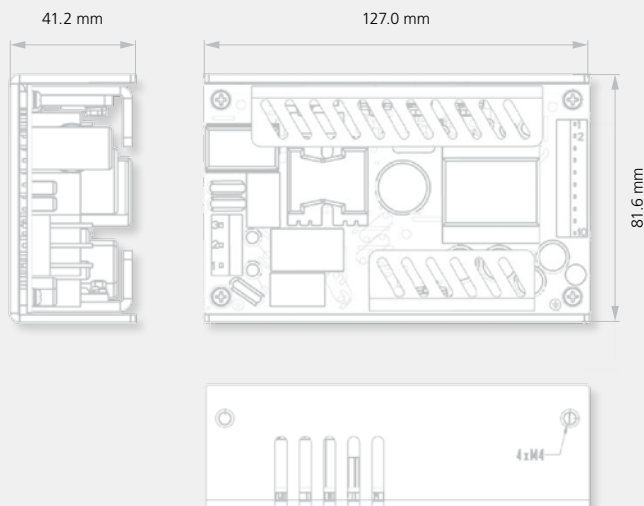
We do the tooling order management for you, we purchase and qualify components and do the complete assembly of the end unit.

Our ambition is to reach the best possible quality in each phase of product development. We commit to ongoing control and improvement of existing processes to assure the high quality of our products - to become and to keep being a reliable and recognised partner of our customers.

Due to this reason, all assemblies and units undergo various tests before leaving the factory. In addition to the automated optical test (AOI) we use In-Circuit-testers and PC-based test stations. Power supplies and chargers are safety relevant components in your application. Because of this, it is necessary to observe all international standards properly during development and manufacturing of each unit. By consequence, managing and following-up of product approvals with international authorities it is a daily routine business to FRIWO. We are well prepared to advise and support you in special approval cases and to carry out this service for you. As a matter of course, our manufacturing sites are controlled regularly by authorised agencies (e.g. VDE, UL, CSA, TÜV, etc.)

The pictured products show a selection of customer specific developments to give you a survey of the range of individual solutions and technical possibilities offered by FRIWO. Which technical challenge can we master for you? We would be pleased to offer you an individual solution for your needs.

## 150 Watts



Output data			Worldwide
Voltage	Current	Ripple Voltage	Order No.
<b>24 V</b>	<b>6250 mA</b>	<b>≤ 120 mV pp</b>	<b>1833612</b>
<b>also available without U-bracket</b>			<b>1891612</b>