

Flush-mounted

SEEING THE UNSEEN

The FRIWO flush-mounted range: Compact, highly efficient switch mode power supply units, with an optimum size for easy mounting. With a maximum diameter of just 51 mm, these units are ideal for installation in all standard flush-mounted sockets and can be fully hidden in walls. FRIWO's flush-mounted power supply units offer numerous advantages, from protection against vandalism to reduced cleaning in applications that require high levels of hygiene. This has made them a firm favorite for building technology, security and sanitary applications. Their cast housing means they are ideally suited for use in damp environments (protection class IP67).

Along with 6 W, 12 W and 18 W cast devices, the flush-mounted range includes the UP USB. This power supply unit features two USB interfaces in one standard socket, allowing you to charge a broad range of home and office devices directly from the wall, while reducing the need for additional chargers and annoying tangled cables. More power for each port: The third generation of the FRIWO UP USB socket comes with an intelligent detection by smart IC. This allows the connected devices to be provided with individually adjusted currents - with a maximum power of up to 3 A at a USB port! A significant advantage compared to conventional UP USB solutions, which, despite a total capacity of 3 A, can only provide max. 1.5 A per USB port.





All the devices in the UP range have a 90 to 264 V AC wide range input, making them suitable for use anywhere in the world. The devices are protection class II compliant, voltage controlled, current-limited and continuously short-circuit-proof, which means they offer a high level of operational safety combined with a long operational life. They also comply with the latest guidelines. Thanks to idle consumption of ≤300 mW and high efficiency at every power level, the units comply with the current threshold values of various energy efficiency programs, such as Energy Star, MEPS or ErP. Flush-mounted power supply units with custom outputs or special leads are also possible on request.

c**A**us **E**2<u>Si</u>



Switchmode power supplies

FLUSH-MOUNTED

All products conform to IEC 60950.

Characteristics

Overload protection

Overvoltage protection

Continuously short circuit proof

Technical data

100 - 240 V Input voltage Frequency 50 - 60 Hz 150 mA (UP6), Input current 200 mA (UP USB).

400 mA (UP12, UP18) ≤ 10 µA (UP6),

Leakage current ≤ 25 µA (UP12, UP18),

≤ 90 µA (UP USB)

Output voltage tolerance Efficiency (typ. full load) ≥ 80 % MTBF

200.000 h*

Environmental specifications

Operating temperature 0 - 40° C Humidity 10 - 95 % -20 - 70° C Storage temperature

Safety specifications

Layout acc. to safety standard IEC 60335-1, IEC 60950, IEC 61558 (UP6, UP12, UP18),

IEC 60950 (UP USB)

Approvals EU, US (UP6, UP12, UP18),

EU (UP USB)

Safety class

EMC EN 55011, EN 55024, EN 55032 (UP6, UP12, UP18),

EN 55024, EN 55024 (UP USB)

Mechanical data

Weight

Connectors

Dimensions 51.0 x 48.0 x 25.0 mm (UP6),

51.0 x 48.0 x 35.0 mm (UP12, UP18), 48.0 x 44.0 x 43.0 mm (UP USB)

95 g (UP6), 130 g (UP12, UP18),

70 g (UP USB)

Please find adapters and accessories on page 86.

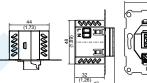
AC input: Leads 150 mm (UP6, UP12, UP18) Screw terminal 2 x 2.5 mm² (UP USB)

DC output: Leads 150 mm (UP6, UP12, UP18)

USB socket type A (UP USB)

UP USB

FW7810 | Optionally with smart IC for intelligent device recognition





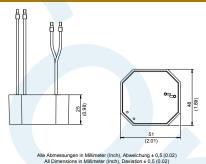
| Output data | | | | | Worldwide |
|-------------|---------|----------|----------------|-----|-------------|
| | Current | Smart IC | Ripple voltage | | Article no. |
| | | | | | |
| 5 V | 2100 mA | no | 80 mV pp | yes | 1897516 |
| 5 V | 2100 mA | no | 80 mV pp | no | 1899027 |
| 5 V | 3000 mA | yes | 80 mV pp | yes | 1899549 |
| 5 V | 3000 mA | yes | 80 mV pp | no | 1899778 |

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Alle Abmessungen in Millimeter (Inch), Abweichung ± 0,5 (0,02)

UP6



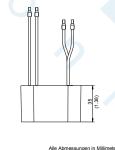


| voitage | Current | Rippie voitage | Article no. |
|------------|---------|-------------------|-------------|
| 4 V | 1300 mA | 300 m V pp | 1891505 |
| 5 V | 1200 mA | 300 mV pp | 1894388 |
| 6 V | 1000 mA | 300 mV pp | 1891506 |
| 9 V | 660 mA | 300 m V pp | 1891507 |
| 12 V | 500 mA | 300 m V pp | 1891508 |
| 15 V | 400 mA | 300 mV pp | 1891509 |
| 18 V | 330 mA | 300 mV pp | 1891510 |
| 24 V | 250 mA | 300 mV pp | 1891511 |

UP12 / UP18

FW7802 /FW7803

FW7801

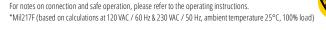


| | | 8 | 48 (1.89) |
|--|-----------|-----|-----------|
| | 51 (2.01) | _// | |

| Voltage | Current | Ripple voltage | Article no. |
|--------------|-------------------|-------------------------------|---------------------------------|
| 12 V 24 V | 1000 mA 500 mA | 300 mV pp 300 mV pp | <mark>1891767</mark> 1891768 |
| | Worldwide | | |
| Voltage | Current | Ripple voltage | Article no. |
| 12 V | 1500 mA | 400 m V pp | 1832688 |
| 24 V | 750 mA | 400 mV pp | 1891685 |

Alle Abmessungen in Millimeter (Inch), Abweichung ± 0,5 (0.02)
All Dimensions in Millimeter (Inch), Deviation ± 0,5 (0.02)





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