

## Power Supply for FEMTO Amplifier Modules

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|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Features                    | <ul style="list-style-type: none"> <li>• <b>Regulated stabilization DC <math>\pm 15</math> V</b></li> <li>• <b>Low ripple and noise</b></li> <li>• <b>Wide input range switch-mode power supply</b></li> <li>• <b>Power cable type I Australia / NZ</b></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                    |
| Safety Instructions         | <p>This power supply is exclusively designed for use with FEMTO amplifier modules. Before use, take care to follow general electrical safety rules and notice the information shown in this datasheet and at the type label on the power supply. Do not use visibly damaged power supplies. Do not use this power supply in security relevant applications or in chemically aggressive environment. Do not expose this power supply to unusual mechanical stress or vibrations. During use do not expose the unit to direct sunlight and do not cover it. Respect the general rules for fire prevention. No liability can be assumed for any consequential damage, provided this is not governed otherwise by applicable product liability laws and regulations. Use in original condition only, do not open, do not repair the unit. When operation is no longer possible or considered to be unsafe, the power supply must be taken out of service and be secured against unintended operation.</p> |                                                                                                                                                                    |
| Environmental Protection    | <p>FEMTO offers all end users in the EU the possibility to return "end of life" units without incurring disposal charges. If you wish to return a unit for waste recovery, please contact FEMTO for further information. Do not dispose of the unit in a litter bin or at a public waste disposal site.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                    |
| Safety and EMI Requirements | <p>The unit bears the CE mark. A complete declaration of CE-conformity is available upon request. The manufacturer declares that this product meets the requirements and the intents of the following standards, normative documents and directives: UL 60950-1, UL/CUL 62368-1 2nd edition, CSA C22.2, FCC 47 CFR PART15 SUBPART B, EMC Directive 2014/30/EU, Low Voltage Directive 2014/35/EU; Energy Requirement DoE LEVEL VI RoHS 2011/65 with amendment (EU)2015/863, AfPS GS 2014: 01 Par. 3.1, EN 61000-3-2: 2014, EN 61000-3-3: 2013, IEC 61000-4-2: 2008, IEC 61000-4-3: 2020, IEC 61000-4-4: 2012, IEC 61000-4-5: 2014+A1: 2017, IEC 61000-4-6: 2013+C1: 2015, IEC 61000-4-8: 2009, IEC 61000-4-11: 2020+C1: 2020, EN 55032: 2015+A11: 2020 Class B, EN 55035: 2017+A11: 2020, EN 62368-1:2014+A11</p>                                                                                                                                                                                      |                                                                                                                                                                    |
| Specifications              | Test conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | $T_A = 25\text{ }^{\circ}\text{C}$                                                                                                                                 |
| Input                       | Input voltage<br>Power consumption, no load<br>Power consumption, max. load<br>Inrush current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | AC 100 – 240 V, $\pm 10\%$ , 47 – 63 Hz<br>< 0.3 W typ.<br>20 W max.<br>max. 65 A @ AC 230 V, 25 $^{\circ}\text{C}$<br>max. 35 A @ AC 115 V, 25 $^{\circ}\text{C}$ |
| Output                      | Output voltage<br>Output current<br>Ripple and noise                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DC $\pm 15$ V, +8%, -2%<br>+500 mA / -400 mA max.<br>15 mV <sub>RMS</sub> typ. (@ +500 mA / -400 mA load)                                                          |
| Protections                 | Insulation voltage, prim./sec.<br>Insulation resistance, prim./sec.<br>Overload protection<br>No load protection<br>Electrical construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | DC 4242 V<br>$\geq 50\text{ M}\Omega$<br>short-circuit-proof<br>idle-running-proof<br>class II                                                                     |
| Case                        | Material<br>Device socket, main<br>Color<br>Dimensions<br>Weight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | plastic housing<br>small power socket, IEC-60320-C8<br>black<br>106 mm x 67 mm x 36 mm (L x W x H)<br>ca. 350 g / 0.77 lbs (including AC power cord)               |
| Ambient Conditions          | Storage temperature<br>Operating ambient temperature<br>Air humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -40 $^{\circ}\text{C}$ ... +85 $^{\circ}\text{C}$<br>0 $^{\circ}\text{C}$ ... +40 $^{\circ}\text{C}$<br>0 % ... 95 % (non-condensing)                              |

## Power Supply for FEMTO Amplifier Modules

### Connector/Cable

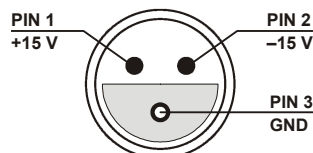
AC input cord  
AUS-version

VDE, 2 x 0.75 mm<sup>2</sup>, black  
AUS-plug, type I AS 3112 (2 pin) to Euro 8, IEC-60320-C7

DC output cord  
DC output connector

22AWG, black  
Lemo® series 1S, 3-pol  
(plug type: FFA.1S.303.CLAC52)

Connector pin assignment



### Scope of Delivery

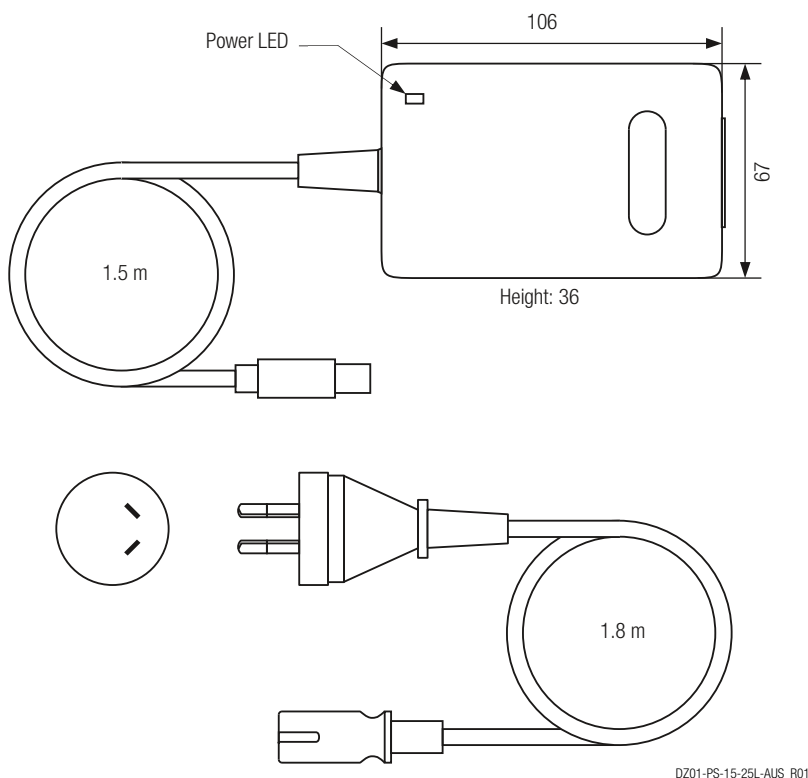
PS-15-25-L (AUS), AC power cord, datasheet, transport package

### Ordering Information

PS-15-25-L (AUS) power supply for FEMTO amplifier modules

### Dimensions

PS-15-25-L (AUS)



all dimensions in mm unless otherwise noted

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