

Labgear PSM114 - 12V 100mA Power Supply

Applications

The PSM114 is a 12VDC regulated power supply ideal for powering any masthead amplifier, or a number of masthead amplifiers in cascade, or other line powered amplifiers providing the total current demand is not more than 100mA.

ErP Compliance

The power supply complies with the ErP (Energy Related Products) Directive. This means that when there is no load the power used is less than 0.3W and the energy efficiency in use complies with the directive.

Mounting and Ventilation

Fix the unit to the wall, skirting board, mounting board or similar hard surface. A ventilation gap of at least 25mm should be left around the front and sides of the unit.

Do not leave the power unit resting on a carpet.

Do not install the power unit where it may become smothered with curtains or other fabrics.

When installing the power unit in a roof space ensure that it is not buried in thermal insulation materials.

Signal connections are made to the f sockets on the right-hand side of the power unit.

Good quality coaxial cable to EN50117-2 must be used. Labgear recommend the use of CAI "benchmarked" PF100 or PF100A cable.

Connections

- The down lead from the masthead amplifier must be connected to the socket marked 'AMP'.
- The signal output from the socket marked 'TV' is connected to the receiving installation (satellite receiver, VCR, DVR, PVR, TV, etc.) or to the input of a cable distribution system.

Connections to the PSM114 are made using Type-f (male) connectors. F type connectors should always be gently tightened with a spanner. Leaving them finger tight may result in unwanted signal ingress or leakage, as well as suck-outs in the frequency response.

Short Circuit Protection

The PSM114 has automatic short circuit and overload protection and will cut out automatically when either is detected. Reset is automatic when the problem is resolved.

General Safety Notes

To avoid risk of electric shock during installation we recommend that the power unit and all associated TV receivers, etc. are isolated from the mains until the installation is complete.


Fixed wiring for electrical supply to these products should be carried out in accordance with BS7671 (IEE Wiring Regulations).

Distribution systems supplying signals to more than one household should comply with the safety requirements of BS EN50083-1. This requires the system to be earth bonded or the use of isolated outlets.



Technical Data	PSM114
DC output:	12VDC - Voltage tolerance 5% - Current 100mA max
Connector type:	Type-F (female) IEC60169-24
Signal frequency range:	44 - 862MHz
Signal insertion loss:	0.5dB
Power requirement under load:	230V~50Hz max. 1.2W
Power requirement under no load:	230V~50Hz at <0.07W
Power indicator:	Green LED
Operating Temperature:	0 ~ 40°C
Dimensions:	88 (L) x 68 (W) x 44 (H) mm

ErP/EuP directive No. (EU) 2019(1782) for Power Supply PSM114

Manufacturer Address Trade mark Registration	Philex Electronic Ltd. Kingfisher Wharf, London Road, Bedford, United Kingdom.  Registration No. 339123
Model identifier	PSM114
Input voltage	100-240V
Input AC frequency	50/60Hz
Output voltage	12VDC
Output current	100mA
Output power	1.2W
Average active efficiency	68.42 %
Efficiency at low load (10 %)	N/A
No-load power consumption	0.07W

General Safety Precautions

To Prevent Overheating

The recommended clearances and other precautions given in these instructions must be observed to prevent overheating. In addition, units should not be positioned where they are likely to become covered by curtains, fabric or insulating material. The amp should not be left resting on a carpet.

Other precautions

This unit is not waterproof, it is intended for indoor use only and must not be positioned where it could be exposed to dripping or splashing water. Objects containing liquids should not be placed close to the unit. To prevent fire, make sure the unit and attached cabling is installed well away from naked flames.

Mains Plug

Your PSM114 is supplied with a standard mains plug already fitted, if you need to change the plug get a competent professional (ELECTSA or NICEIC) to make the connection with an isolating switch to allow it to be disconnected when necessary.

If you need to change the fuse use a 3 Amp fuse to BS1362 carrying the ASTA or BSI approved mark and refit the plastic fuse carrier.

Labgear reserve the right to modify their designs or specifications, In the light of future developments, without prior notice. Performance figures quoted are typical and subject to normal manufacturing and service tolerances.



Technical Support

For further help, advice or information visit
Our website www.labgear.co.uk
Technical team www.labgear.co.uk/technical
Email: technical@labgear.co.uk
or **live chat** during office hours via our website

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