



PSM SERIES

Regulated DC Power Supply

PSM1215 PSM1225 PSM1235



INSTRUCTION MANUAL

IMPORTANT NOTE

GME PSM Series power supplies are developed to operate from 230-240V AC power sources.

For extended operations, always use the power supply in a well ventilated area and ensure the ventilation slots are clear. Allow at least 100mm clearance from nearby objects.

INTRODUCTION

The GME PSM Series power supplies use switch mode technology to produce a highly regulated 13.8V DC output from a 230-240V AC source. The PSM Series does not require a heavy transformer, which makes them a more efficient and cost effective alternative to conventional power supply technology.

The PSM Series is fully filtered and gives very low ripple noise output which makes it the ideal power supply for use with radio communications equipment. The PSM Series meets all national safety and EMC requirements.

The PSM Series are very well protected and feature automatic fold-back current protection and automatic reset of thermal protection against overload and overheating, making them suitable for harsh environments with heavy loads and where considerable variations in the AC mains voltage may occur.

The appliance should not be used by young children or infirm persons without supervision. This appliance is not a toy.

Supply cord must only be replaced by the manufacturer, their service agent or a qualified person.

FEATURES

- High efficiency switch-mode technology for cooler operation and longer life.
- Cooled by in-built thermally controlled fan.
- Compact and lightweight aluminium heat sink.
- Suitable for most communications equipment applications or where a stable regulated DC voltage is required.
- Very low ripple noise
- Excellent voltage regulation against variations in line and loads.
- Output short circuit protected with auto-reset facility.
- Auto reset of thermal protection against overheating.
- Maximum current limited with automatic fold-back protection.
- Over voltage protection shuts down the output to prevent damage to attached equipment.
- RF/EMI filter meets all national EMC requirements.

OPERATION

1. Connect the electronic equipment to the power supply terminals observing the correct polarity. The RED terminal is positive (+) and the BLACK terminal is negative (-). For connections to the cigarette lighter socket (PSM1215 only), the centre is positive (+) and the body is negative (-).
2. With the power supply's ON/OFF switch in the OFF position, plug the power supply into the 240V AC outlet.
3. Turn the power supply ON with the ON/OFF switch. The LED on the front panel will light to indicate that the DC power is being delivered to the output terminals.

SPECIFICATIONS

Model	PSM 1215	PSM 1225	PSM 1235
Total peak current (amps) 10% duty cycle	15	25	35
Total continuous current (amps)	12*	20	30
Dimensions height x width x Depth (mm)	69 x 173 x 124	73 x 173 x 190	74 x 173 x 234
Weight (kg)	1.3	1.9	2.2
Operating temperature range: -10°C to +40°C			

*Includes 5 A @ 12V max via lighter socket.
Total continuous of both outputs combined not to exceed 12 amps.

PROTECTION FEATURES

CURRENT LIMIT CIRCUIT

GME PSM Series power supplies have an automatic fold-back current limiting function that causes the output voltage and current to fall if the attached equipment tries to draw too much current. If 5 amps is exceeded on a cigarette lighter output, the protective circuit will activate. The power supply will not operate via the cigarette lighter output (12V) until the load is removed.

AUTOMATIC THERMAL SHUTDOWN

GME PSM Series power supplies have built-in thermal protection designed firstly increase the fan speed and then shut down the power supply if for any reason the unit becomes excessively hot. This could conceivably happen

if the power supply is overloaded or used in high temperature areas with insufficient ventilation for long periods of time. Once the thermal protection has been triggered, the power supply will immediately start to cool down and when a safe temperature is restored, will automatically return to normal operation. Overload problems can usually be resolved by reducing the load, the duty cycle or by using a higher rated supply. Repeated thermal cycling may shorten the life of the power supply.

OVER VOLTAGE PROTECTION (OVP)

GME PSM Series power supplies have an over voltage protection feature which is designed to protect any attached equipment from damage should the power supply output exceed the rated voltage.

If the front panel LED does not turn on when there is no load attached and the power supply is switched ON, a service will be required by the manufacturer, their service agent or a qualified person only.

GME WARRANTY AGAINST DEFECTS

1. Consumer guarantees

- 1.1 Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.
- 1.2 To the extent we are able, we exclude all other conditions, warranties and obligations which would otherwise be implied.

2. Warranty against defects:

- 2.1 This Warranty is in addition to and does not limit, exclude or restrict your rights under the Competition and Consumer Act 2010 (Australia) or any other mandatory protection laws that may apply.
- 2.2 We warrant our goods to be free from defects in materials and workmanship for the warranty period (see warranty table) from the date of original sale (or another period we agree to in writing). Subject to our obligations under clause 1.2, we will at our option, either repair or replace goods which we are satisfied are defective. We warrant any replacement parts for the remainder of the period of warranty for the goods into which they are incorporated.
- 2.3 To the extent permitted by law, our sole liability for breach of a condition, warranty or other obligation implied by law is limited.
- (a) In the case of goods we supply, to any one of the following as we decide –
- (i) The replacement of the goods or the supply of equivalent goods.
 - (ii) The repair of the goods.
 - (iii) The cost of repairing the goods or of acquiring equivalent goods.
- (b) In the case of services we supply, to any one of the following as we decide –
- (i) The supplying of the services again
 - (ii) The cost of having the services supplied again.
- 2.4 For repairs outside the warranty period, we warrant our repairs to be free from defects in materials and workmanship for three months from the date of the original repair. We agree to re-repair or replace (at our option) any materials or workmanship which we are satisfied are defective.
- 2.5 We warrant that we will perform services with reasonable care and skill and agree to investigate any complaint regarding our services made in good faith. If we are satisfied that the complaint is justified, and as our sole liability to you under this warranty (to the extent permitted at law), we agree to supply those services again at no extra charge to you.
- 2.6 To make a warranty claim you must before the end of the applicable warranty period (see warranty table), at your own cost, return the goods you allege are defective, provide written details of the defect, and give us an original or copy of the sales invoice or some other evidence showing details of the transaction.

Before returning any goods you will be required to follow the available options:

Contact our Customer Support Team on 1300 463 463 or techsupport@gme.net.au. A customer support team member will troubleshoot and validate if your product is faulty. If so, they will email you a product RMA (Return Material Authorisation). Products that are authorised to be returned to GME must include the following: RMA form (Return Material Authorisation) A copy of your proof of purchase, the faulty product, including all accessories.

- 2.7 Send your claim to: **GME Pty Ltd.**
17 Gibbon Rd, Winston Hills,
NSW 2153, Australia.
Tel: (02) 8867 6000 Fax: (02) 8867 6199.
Email: servadmin@gme.net.au
- 2.8 If we determine that your goods are defective, we will pay for the cost of returning the repaired or replaced goods to you, and reimburse you for your reasonable expenses of sending your warranty claim to us.

3. What this warranty does not cover:

- 3.1 This warranty will not apply in relation to:
- (a) Goods modified or altered in any way.
 - (b) Defects and damage caused by use with non GME products.
 - (c) Repairs performed other than by our authorised representative.
 - (d) Defects or damage resulting from misuse, accident, impact or neglect.
 - (e) Goods improperly installed or used in a manner contrary to the relevant instruction manual; or
 - (f) Goods where the serial number has been removed or made illegal.

4. Warranty period:

- 4.1 We provide the following warranty on GME and Kingray products. No repair or replacement during the warranty period will renew or extend the warranty period past the period from original date of purchase.

PRODUCT TYPE	WARRANTY PERIOD
Power Products	1 Year



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