

# Kingray

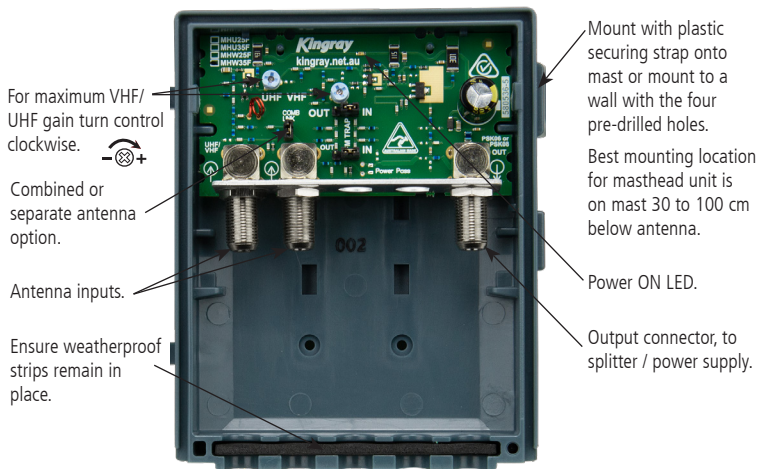
Specialist in Digital TV Distribution Solutions

## MHW25F, MHW35F/FS, MHU25F & MHU35F/FS

### FULLY SHIELDED & NON SHIELDED F TYPE MASTHEAD AMPLIFIERS

Thank you for selecting an Australian designed and built masthead amplifier.

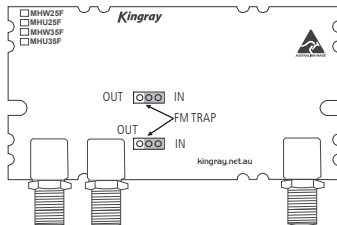
This Kingray masthead amplifier is engineered to provide low band VHF plus 4G/LTE & 5G filtering to maximise interference rejection.



## INSTALLATION

Kingray masthead amplifiers have several built-in filters for interference rejection. The inclusion of low band and 4G/LTE filtering in these models provides a future-proof solution. In addition, the MHW versions include filters for amateur radio and pager frequencies as well as a switchable FM radio filter. To configure the amplifier, please follow Fig 1 below.

Fig 1



### Combined or separate antenna option

When using a combination VHF/UHF antenna, make sure the link is on (DEFAULT) and the left hand input is used. For separate UHF and VHF antennas, remove link and use the left hand input for UHF, the right hand input for VHF.

**Note:** Features & specifications varies across these models.

### FM filter (MHW versions only)

To eliminate FM radio interference; make sure both jumper links are on the 'FM TRAP IN' (DEFAULT).

To amplify FM radio signals, set both jumper links to 'FM TRAP OUT'.

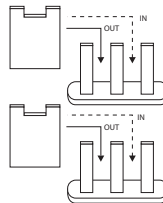
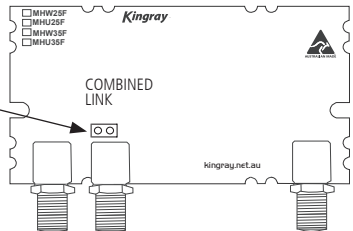
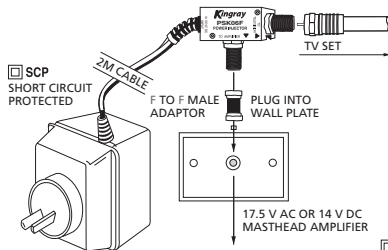


Fig 2

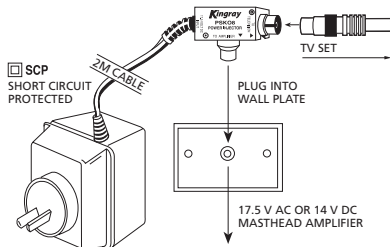


Separate UHF and VHF inputs  
Combination VHF/UHF input

## POWER SUPPLY OPTIONS



PSK06F/08F



PSK06/08

## TECHNICAL ADVICE

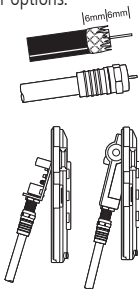
1. **Check** there is no earth braid touching the centre conductor on the coaxial cable.
2. **Is there more than one outlet?** Check the splitter box, the power supply must be connected to the coaxial outlet that feeds the AC/DC leg of the splitter box to pass power to the head unit. (Check if LED is on in the amplifier).
3. **Is there now too much signal causing an overload effect?** Try turning down the gain controls on the masthead unit, or select a lower gain amplifier.

Please see diagrams below for options.

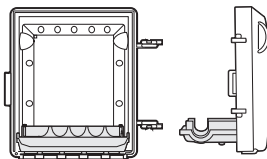
Bare back cable with a cable stripper or Stanley knife.

Slide on F connector and crimp or use a twist on connector.

Both models can pivot to easily access connectors.



Shielded models can have lid inserted into plastic outer cover whilst installing.



## SPECIFICATIONS

Frequency range	VHF: 174–230 MHz UHF: 520–694 MHz	Gain control range 25 dB models	VHF: Tilt control 7 – 4 dB UHF: 10 dB
Max gain 25 dB models	VHF: 12–15 dB (W models only) VHF: N/A (U models) UHF: 25 dB	Gain control range 35 dB models	VHF: Tilt control 16 – 12 dB UHF: 15 dB
Max gain 35 dB models	VHF: 22–26 dB (W models only) VHF: N/A (U models) UHF: 35 dB	Supply voltage	PSK06 or PSK06F (DC) PSK08 or PSK08F (AC)
Output figure	108 dB DIN45004B @ (-60 dB IMR)	MHW25F/FS and MHW35F/FS only	
Noise figure 25 dB models	VHF: < 3.5 dB UHF: < 2.1 dB	Pager filter	-25 dB @ 148 MHz and 158 MHz
Noise figure 35 dB models	VHF: < 3 dB UHF: < 2.5 dB	FM filter	-25 dB @ 88–108 MHz
		Band 1 filter	-30 dB @ 44 MHz

## STANDARD COMMUNICATIONS CONTRACT WARRANTY AGAINST DEFECTS

This warranty against defects is given by Standard Communications Pty Ltd ACN 000 346 814 (We, us, our or GME). Our contact details are set out in clause 2.7. This warranty statement only applies to products purchased in Australia. Please contact your local GME distributor for products sold outside of Australia. Local distributor details at [www.gme.net.au/export](http://www.gme.net.au/export).

### 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.
- 2.7 Send your claim to:  
Standard Communications Pty Ltd.  
PO Box 96, Winson Hills, NSW 2153.  
Tel: (02) 8867 6000, Fax: (02) 8867 6199  
Email: [servadmin@gme.net.au](mailto: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 Standard Communications 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
Kingray Masthead Amplifiers	3 years



ISO 9001:2015  
AU97/0906  
List of certified  
characteristics available  
at [www.sgs.com](http://www.sgs.com)



# Kingray

[kingray.net.au](http://kingray.net.au)

A division of GME Pty Ltd.

Head Office: PO Box 96, Winston Hills, NSW 2153, Australia T: 1300 463 463

New Zealand: PO Box 58446 Botany, Auckland, 2163, NZ. T: (09) 274 0955.

All other international enquiries email: [export@gme.net.au](mailto:export@gme.net.au)

Drawing No: 47961-5 Part No: 310658