

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.

1. Consumer guarantees

- 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.
- To the extent we are able, we exclude all other conditions, warranties and obligations which would otherwise be implied.

2. Warranty against defects

- 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.
- 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.
- To the extent permitted by law, our sole liability for breach of a condition, warranty or other obligation implied by law is limited
 - in the case of goods we supply, to any one of the following as we decide –
 - the replacement of the goods or the supply of equivalent goods;
 - the repair of the goods;
 - the cost of repairing the goods or of acquiring equivalent goods;
 - in the case of services we supply, to any one of the following as we decide –
 - the supplying of the services again;
 - the cost of having the services supplied again.

- 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.

- 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.
- 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.
- Send your claim to:
Standard Communications Pty Ltd.
17 Gibbon Rd, Winston Hills, NSW 2153 Australia.
Tel: (02) 8867 6000, Fax: (02) 8867 6199
Email: servadmin@gme.net.au
- 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

- This warranty will not apply in relation to:
 - goods modified or altered in any way;
 - defects and damage caused by use with non Standard Communications products;
 - repairs performed other than by our authorised representative;
 - defects or damage resulting from misuse, accident, impact or neglect;
 - goods improperly installed or used in a manner contrary to the relevant instruction manual; or
 - goods where the serial number has been removed or made illegible.

4. Warranty period

- 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
Satellite Distribution Amplifier	3 years

INSTALLATION MANUAL

Kingray

Specialists in TV signal amplification

SAT40S, SAT25S

Satellite 950–3000 MHz Distribution Amplifier

Optimised for digital TV signal amplification.

Thank you for selecting an Australian designed and built amplifier.

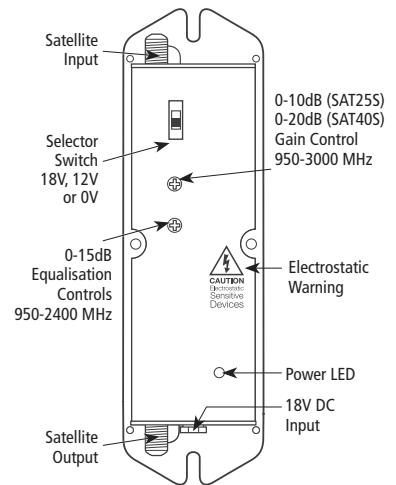


Figure 1. (Lid removed)

The SAT40S and SAT25S are satellite distribution amplifiers for use in SMATV multiple dwelling applications. They feature high output with adjustable gain and equalisation control. The amplifier is designed to be powered by an 18 volt DC power supply (see Fig. 1).



CAUTION: This amplifier contains devices that are sensitive to Electrostatic Discharge (ESD).

WARNING: Do not connect power directly into the input sockets otherwise damage will occur.

INSTALLATION

The SAT40S or the SAT25S is intended for indoor use.

Mount so there is free circulation of air around the amplifier and sufficient space for the cable connections.

Cable connections

The input/output cable connectors are 'F' Type.

Powering options

LNB powering: A LNB can be powered by the SAT40S or SAT25S from each input socket. Simply select 18 volts, 12 volts or 0 volts using the selector switches.

Local powering: The PSK18S plugs directly into the DC power socket located between the two satellite output sockets (Fig. 1).

Line powering: Can be achieved using a PSK18F and supplying 18 volts to the output terminal (Fig. 2).

Line powering can also be achieved from the input by using a PSK18F to inject voltage into the input lead, then installing a PIK2000 in line with the input socket and connecting the DC plug on the PIK2000 to the DC Socket on the amplifier (Fig. 3).

Figure 2. (Lid removed)

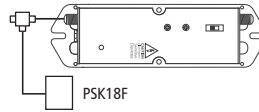
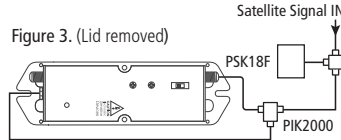


Figure 3. (Lid removed)



Adjustments

Gain: Set the output level according to the network calculations.

Adjustment range is 0-20dB (SAT40S)
0-10dB (SAT25S)

Equalisation: Set the equalisation according to the network calculations.

Adjustment range 0-15dB (950-2400 MHz).

SPECIFICATIONS			
PARAMETER	SPECIFICATION		NOTE
MODEL	SAT40S	SAT25S	
Frequency Range	950-3000 MHz	950-3000 MHz	
Gain	40dB (Nominal)	25dB (Nominal)	950-3000 MHz
Flatness	± 2dB	± 2dB	950-3000 MHz
Noise Figure	< 10dB	< 10dB	950-3000 MHz
Return Loss	> 10dB	> 10dB	950-3000 MHz
Gain Control Range	0-20dB	0-7dB	950-3000 MHz
Equalisation Range	15dB	15dB	950-2400 MHz
Output Level	122dBµV	112dBµV	- 30 dB IMR3
Supply Voltage	18V DC	18V DC	
Current Consumption	260-410 mA*	110-260 mA*	
POWERING FEATURES			
Option 1	Locally - PSK18S plug pack		
Option 2	Remotely - PSK18F to the output		
LNB	Via switches		
Radiation	< 20 dBpw		
Operating Temperature	-10°C to 50°C		
Dimensions	195 x 55 x 35 mm		
Weight	250 grams		
Connectors	'F' Type		
* Depending on current drain by LNBs			
All values are typical unless otherwise specified.			

Note: When using the SAT25S with the Kingray KMS-F1 as a launch amplifier, do not exceed 102dBµV output level.



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