

# Kingray

Specialists in TV signal amplification

## SAT42D, SAT29D

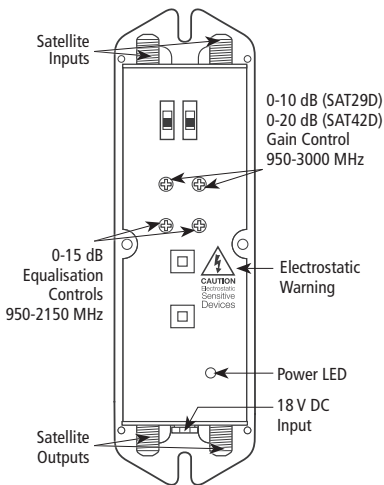
### Dual Satellite

### 950-3000 MHz

### DISTRIBUTION AMPLIFIER

Optimised for both digital and analogue TV signal amplification.

Thank you for selecting an Australian designed and built amplifier.



**Fig. 1 (Lid removed)**

The SAT42D and SAT29D are dual satellite distribution amplifiers for use in SMATV multiple dwelling applications. They feature high outputs with adjustable gain and equalisation control. The amplifier is designed to be powered by an 18 volt DC power supply (see Fig .1).



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**CAUTION:** This amplifier contains devices that are sensitive to Electrostatic Discharge (ESD).  
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.....  
**WARNING:** Do not connect power directly into the input sockets otherwise damage will occur.  
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## INSTALLATION

The SAT42D or the SAT29D 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 SAT42D or SAT29D from each input socket. Simply select 18 volts, 12 volts or 0 volts using the selector switches.

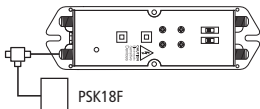
**Local powering:** The PSK18S plugs directly into the DC power socket located between the two satellite output sockets (Fig. 1).

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

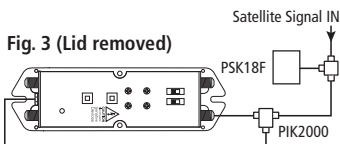
Line powering can also be achieved from the input by using a PSK18F to inject voltage into the input lead, then installing a PIK2000 in line with the input socket and connecting the DC plug on the PIK2000 to the DC Socket on the amplifier (Fig. 3).

		SPECIFICATIONS
PARAMETER		SP
<b>MODEL</b>		SAT42D
Frequency Range		950-3000 MHz
Gain		40 dB (Nominal)
Flatness		± 2 dB
Noise Figure		< 10 dB
Return Loss		> 10 dB
Gain Control Range		0-20 dB
Equalisation Range		15 dB
Output Level		122 dB
Supply Voltage		18 V DC
Current Consumption		200-450 mA*
<b>POWERING FEATURES</b>		
Option 1		Locally - PSK18S
Option 2		Remotely - PSK18F
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
		All values are typical unless

**Fig. 2 (Lid removed)**



**Fig. 3 (Lid removed)**



## Adjustments

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

Adjustment range is 0-20 dB (SAT42D)  
0-10 dB (SAT29D)

**Equalisation:** Set the equalisation according to the network calculations.

Adjustment range 0-15 dB (950-2150 MHz).

## SPECIFICATIONS

SPECIFICATION		NOTE
	SAT29D	
Frequency	950-3000 MHz	
Gain	29 dB (Nominal)	950-3000 MHz
	± 2 dB	950-3000 MHz
	< 10 dB	950-3000 MHz
	> 10 dB	950-3000 MHz
	0-7 dB	950-3000 MHz
	15 dB	950-2150 MHz
	112 dB	- 30 dB IMR3
	18 V DC	
	180-490 mA*	

3s plug pack

PSK18F to either output

mm

Current drain by LNBS  
unless otherwise specified.

# 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

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- 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

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- 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.  
 Unit B, 22-24 College Street, Gladesville,  
 NSW 2111, Australia.  
 Tel: (02) 9879 8888, Fax: (02) 9816 4722  
 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**

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- 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**

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- 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.



<b>Product Type</b>	<b>Warranty Period</b>
Kingray amplifiers, modulators, diplexers and filters, Kingray plug pack power supplies, Kingray Professional rack mount products.	3 years



ISO 9001: 2008  
AU97\0906  
List of certified  
characteristics available  
at [www.sgs.com](http://www.sgs.com)



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 **1300 463 463**     **[kingray.net.au](http://kingray.net.au)**

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