



## SUNNY SAM series - AM Line Amplifier

Model : SAM-500'1700KHz-LA-44

### Highlight:

- Support AM frequency 500kHz to 1700kHz
- Maximum 44dBm output
- Maximum 55dB Gain
- ALC Control
- Simply Plug and Play design



Wall mount



Rack mount

### Electrical Specification

Frequency Range (kHz)	500-1700
Output Power (dBm)	44±3 (25W)
Gain (dB)	55
Gain Adjustment (dB)	≥20/1dB step (by DIP-switch)
Gain flatness (dB)	≤ ±2dB
ALC	Output power ±0.5dB@normal operation
ALC range (dB)	≥15
Maximum RF input without damage (dBm)	≤+5
Minimum RF input (dBm)	≥-25
1dB Compression point (dBm)	≥44
3 <sup>rd</sup> Order Interception Point (dBm)	≥52
Noise Figure (dB)	≤10
Input VSWR	≤2:1
Spurious attenuation (dBc)	≤40
Harmonic attenuation (dBc)	≤10

### Power Supply and Mechanical Specification

RF Connector	N(F)
I/O Impedance (Ω)	50
Power Supply	220VAC, 50Hz/60Hz
Power Supply Safety Standard	EN60950-1 short circuit, open circuit, over load and over voltage protection
Max. Power Consumption (W)	≤200
Heat Dissipation (W)	≤180
Cabinet Environment Rating	IP 65 for Wall mount, IP20 for Rack Mount
Dimension (mm)	500x440x235 (Wall mount), or 2U, 19" Rack mount 482X500X89 (Option: SAM-RACK)
Cooling	Natural
Indication LED	Green LED : Normal Indication Red LED : Alarm Indication
Alarm type	High Temperature (≥85°C, auto shutdown) Devices Failure
Interface	Relay Dry contact alarm output x1 (Option: SAM-RL)
Operating temperature (°C)	-20 to +55
Relative Humidity (%)	0~95

### Ordering Information

Model	<b>SAM-500'1700KHz-LA-44</b> : Sunny AM Line Amplifier
Options	<b>SAM-RL</b> : Normal Open (NO) Relay Dry Contact x1 for alarm indication <b>SAM-RACK</b> : Rack mount cabinet

Technical data are subjected to change without notice – File: SAM-500'1700KHz-LA-44 datasheet 2017V1.0