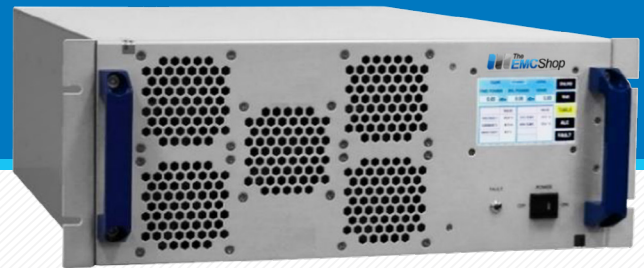


MODEL NUMBER:
SSDB3G-50/25

**SOLID STATE HIGH
POWER AMPLIFIER**



FEATURES

- Designed for broadband EMI/RFI, Lab, Comm., and EW applications
- Small form factor, rack mounted system
- Class A/AB Linear design
- High Power Advanced technology devices
- Instantaneous ultra-wide bandwidth
- Built-in protection circuits, with extensive monitoring
- Local LCD & remote flexible interfaces
- High efficiency, with unprecedented reliability and ruggedness

ELECTRICAL SPECIFICATIONS: 25°C, 50Ω

PARAMETER	SPECIFICATION		NOTES
	A	B	
Band			Band switching @ 15 mS Typ
Operating Frequency Range	1 - 1000 MHz	1.0 – 3.0 GHz	
Power Output @ Psat	100 Watt Min	50 Watt Min	
Power Output @ P1dB	>50 Watt Typ	>25 Watt Typ	CW
Power Gain	50 dB Min	47 dB Min	0dBm or less for rated Pout
Power Gain Flatness	4 dB p-p Max		Constant input power
Gain Adjustment Range	20 dB Min		Local or remote
Input / Return Loss	-10 dB Max		
2-Tone Intermodulation (IMD)	-30 dBc Typ		37dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ		At rated Pout
Spurious	-60 dBc Max		Non-harmonic
Operating Voltage	100 - 240 VAC		47 - 63 Hz
Power Consumption	1000 Watt Max		At rated Pout
Input Power Protection	+10 dBm Max ¹		
Load VSWR Protection	4 : 1: Max ²		Foldback @ preset limit
Sample Port (optional)	-50 dB		N-Female

1 Units with optional digital monitor and control, for basic units <10 Sec without damage

2 Units with optional digital monitor and control, for basic units <1 minute at rated Pout

ENVIRONMENTAL CHARACTERISTICS

PARAMETER	SPECIFICATION	NOTES
Operating Ambient Temperature	0 to +50°C	5U - excluding handles
Storage Temperature	-40 to +85 °C	
Relative Humidity	up to 95 %	Non-condensing
Altitude	3000 meters	
Shock & Vibration	Normal transport ³	

³ MIL Spec available for quotation

MECHANICAL SPECIFICATIONS

PARAMETER	SPECIFICATION	NOTES
Dimensions W x H x D	483 x 178 x 560 mm	5U - excluding handles
Weight	25 Kg. Nom	
RF Connectors In/Out/Sample (optional)	Type-N Female	Front or Rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Air-Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control (DMC) FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, Optional Safety Interlock (INT)	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface Open=STBY/Short=RFON	IEEE rear panel BNC-F rear panel

OUTLINE DRAWING

