

MODEL NUMBER:
SS1G-1250

**SOLID STATE HIGH
POWER AMPLIFIER**



FEATURES

- Designed for EMI/RFI, lab, CW/Pulse and all communication 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: 50Ω, 25°

PARAMETER	SPECIFICATION	NOTES
Operating Frequency Range	80 - 1000 MHz	
Power Output @ Psat	1300 Watt Min	1500 Watt Typ CW
Power Output @P1dB	700 Watt Min	1000 Watt Typ CW
Power Gain	61 dB Min	0dBm or less for rated Pout
Power Gain Flatness	4.0 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)	-20 dBc Typ	51dBm/Tone, Δ = 1MHz
Harmonics	<-20 dBc Typ	At rated output
Spurious	-60 dBc Max	Non-harmonic
Operating Voltage	120 / 208 VAC / 3-phase 50 / 60 Hz	220/380 3-phase available
Power Consumption	10 KW Mx / 8 KW Typ	At rated output
Input Power Protection	+3 dBm Max1	
Load VSWR Protection	4 : 1: Max2	Foldback @ preset limit
Sample Port Coupling (optional)	-60 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	
Storage Temperature	-40 to +85 °C	
Relative Humidity	up to 95 %	Non-condensing
Altitude	3000 meters	
Shock & Vibration	Normal transport ³	

MECHANICAL SPECIFICATIONS

PARAMETER	SPECIFICATION	NOTES
Dimensions W x H x D	18.8 x 31.4 x 13.9 inches	9U, excluding handles (6U+3U)
Weight	132.2 lb	
RF Connectors In/Out/Sample (optional)	Type-N Female / 7/16 Female / N Female	Front or rear panel
AC Power / Interface	MS / 9-Pin D-Sub	Or equivalent
Cooling: Built in Quiet-Cool	Close circuit Air-liquid cooling	
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

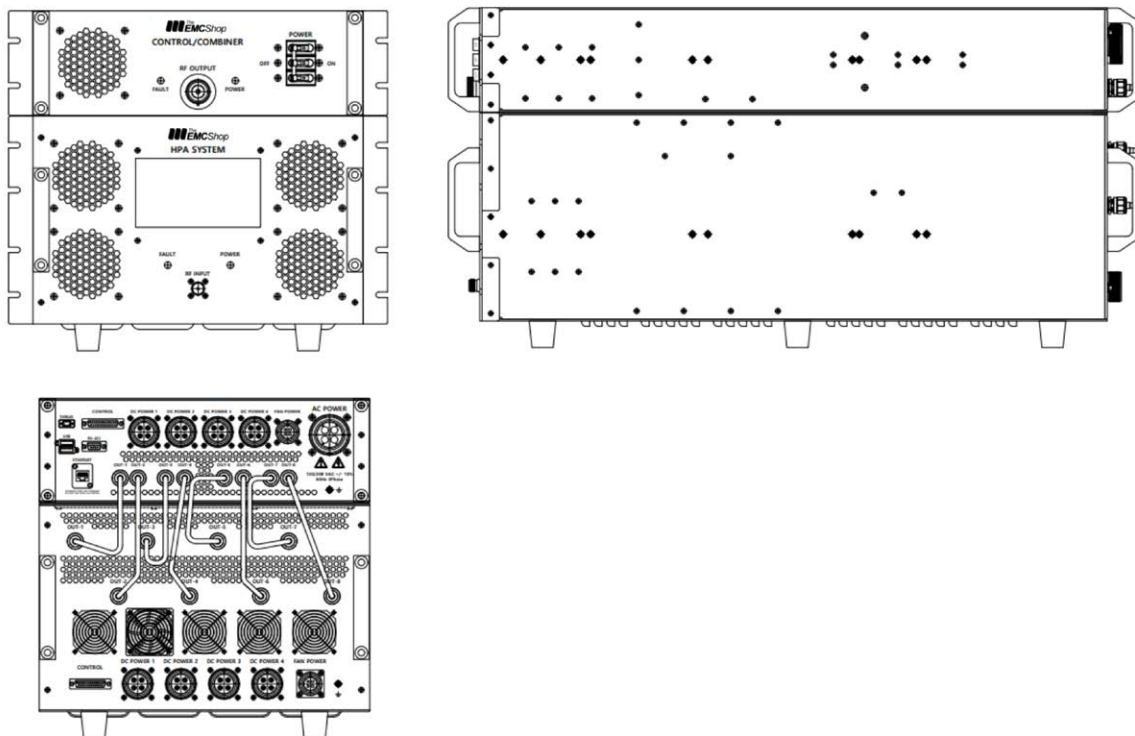
AVAILABLE SPECIAL OPTIONS

PARAMETER	SPECIFICATION	NOTES
Option FRS: Forward RF Sample	-60dB, Type N-Female	Front or rear panel
Option RRS: Reflected RF Sample	-50dB, Type N-Female	Front or rear panel
Option GPIB: GPIB remote control	GPIB IEEE-488 Remote capability	
Included CPM: Calibrated Power Monitoring (with purchase of Option DMC)	Offset correction entry for +/- 0.2dB accuracy	11-points standard ⁴

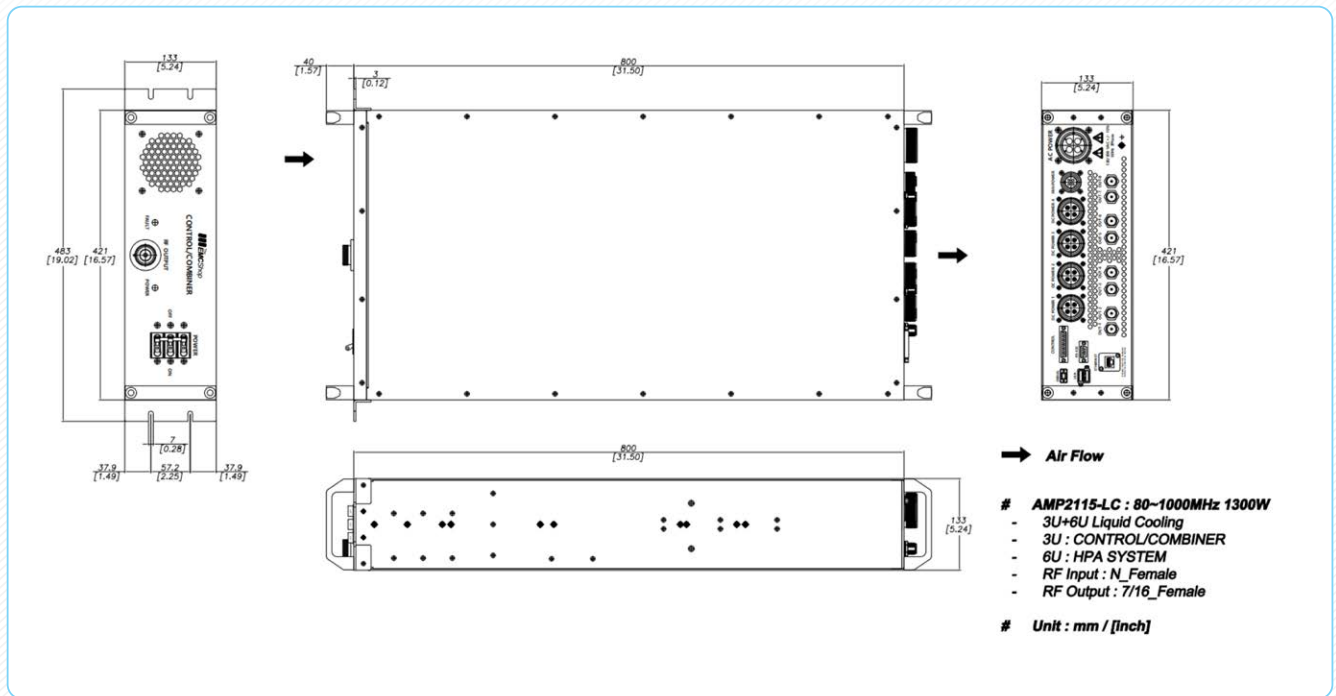
⁴ Consult with factory if additional points would be required

OUTLINE DRAWING

CONTROL & COMBINER UNIT WITH HPA DRAWER SHOWN WITH DIGITAL CONTROLLER



CONTROL & COMBINER DRAWER



HPA RF DRAWER

