



AMP2041 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Small form factor rack mounted system
High power advanced GaN devices
Instantaneous bandwidth
Suitable for linear CW and composite signal applications
Built-in remote control, monitoring and protection circuits
High efficiency, reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	1.0 - 2.5 GHz	
Output Power @ P1dB GCP	2 KW Min / 4KW Max	CW
Power Gain	63 dB Min	
Gain flatness	6.0 dB p-p Max	
Input /Output Return Loss	10 dB Min	
2-Tone Intermodulation (IMD)	>30 dBc Typ	54dBm/Tone, $\Delta = 1\text{MHz}$
Harmonics	>20 dBc Typ	
Spurious	60 dBc Min	Non Harmonics
Operating Voltage	208 VAC	
Power Consumption	12 KW Max	At rated Pout
Max Input Power	+8 dBm	Without damage
Load VSWR Protection	$\infty : 1$	Fold back protection

MECHANICAL SPECIFICATIONS

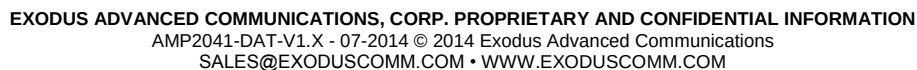
Parameter	Specification	Notes
Dimensions W x H x D	Rack Cabinet	
Weight	-	
RF Connectors In / Out	Type N F / 1 5/8"	
Cooling	Built in forced air	
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, GPIB Interface	Remote Bluetooth application

ENVIRONMENTAL CHARACTERISTICS

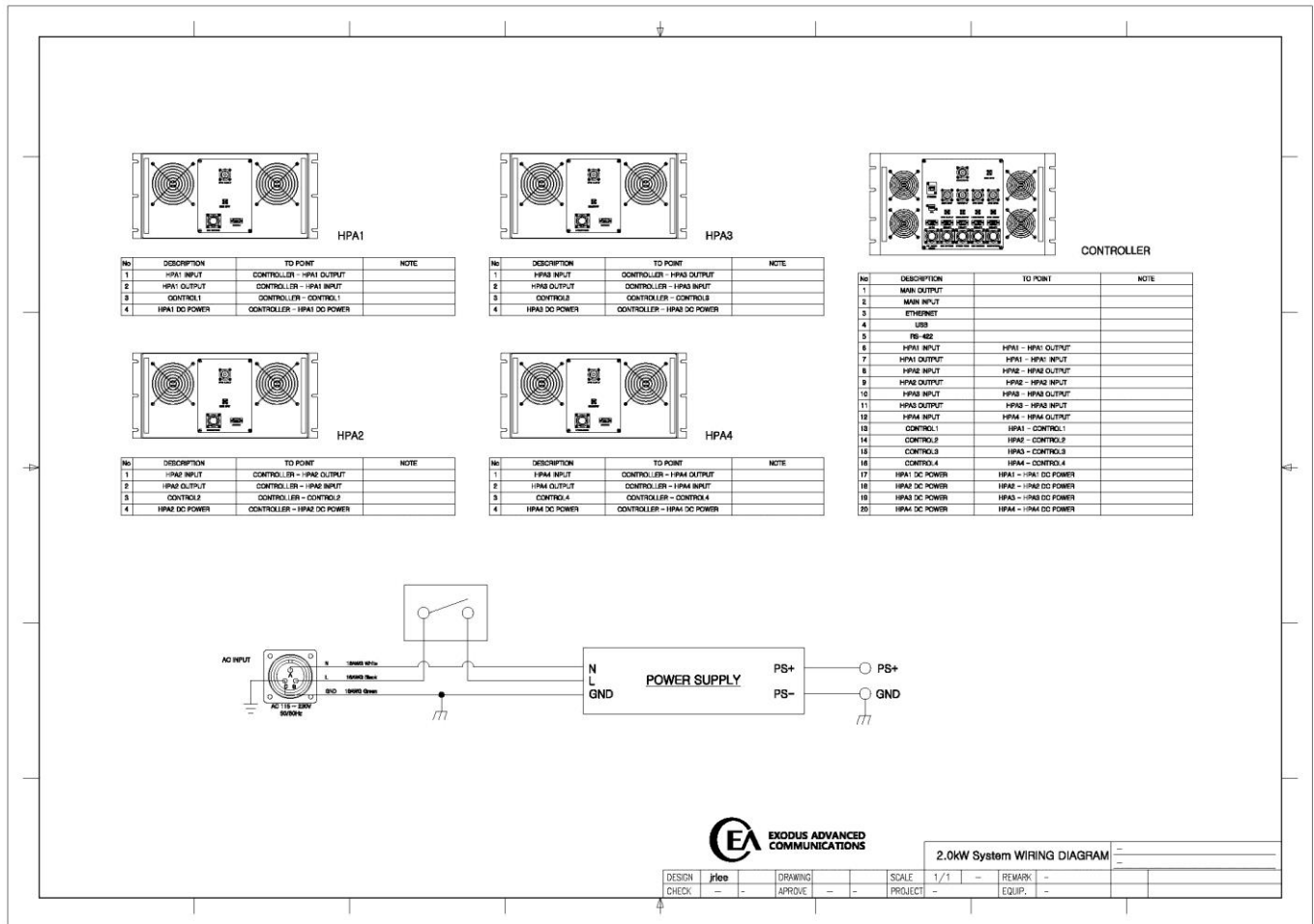
Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50°C	
Storage Temperature	-20 to +70°C	
Relative Humidity	95% @ 40°C	Non Condensing
Shock & Vibrations	MIL STD 810E	



- 2.0KW System Block Diagram

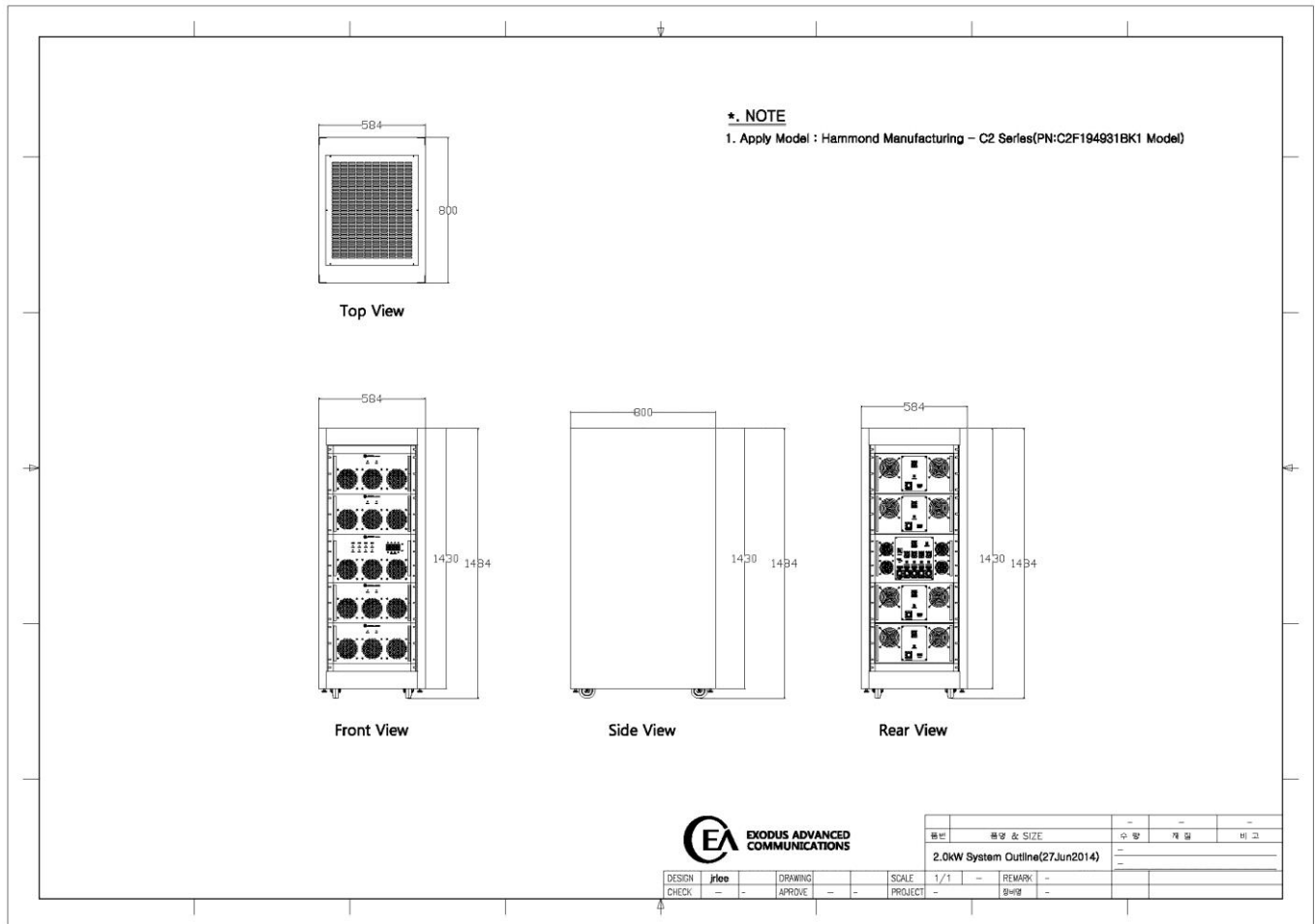


2.0KW System Wring Diagram



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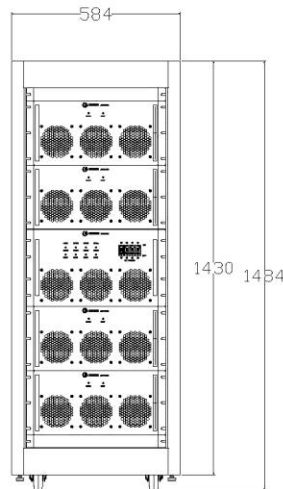
● 2.0KW System Outline



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***. NOTE**

1. Apply Model : Hammond Manufacturing - C2 Series(PN:C2F194931BK1 Model)



Front View



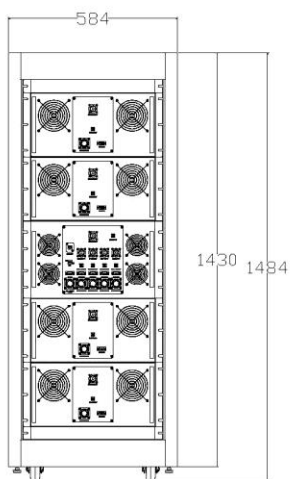
DESIGN	jlee	DRAWING		SCALE	1/1	REMARK	
CHECK	-	APPROVE	-	PROJECT	-	함영	-

품명	품명 호 SIZE	구	형	개	일	비	고
2.0kW System Front View(27.Jun2014)							

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1. Apply Model : Hammond Manufacturing - C2 Series(PN:C2F194931BK1 Model)



Rear View



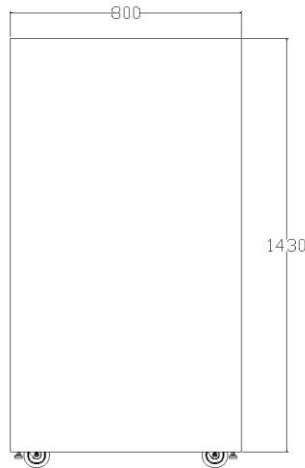
DESIGN	jlee	DRAWING		SCALE	1/1	REMARK	
CHECK	-	APPROVE	-	PROJECT	-	REMARK	-

품명	품명 호 SIZE	구분	개수	비고
2.0kW System Rear View(2/7/Jun2014)				

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Side View



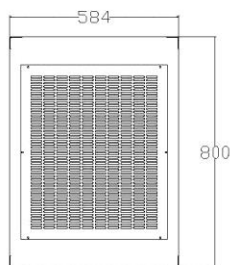
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CHECK	-	APPROVE	-	PROJECT	-	함명	-

품번	용량 호 SIZE	구.형	개.일	비.고
	2.0kW System Side View(2/ Jun2014)			

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***. NOTE**

1. Apply Model : Hammond Manufacturing - C2 Series(PN:C2F194931BK1 Model)



Top View

DESIGN	jlee	DRAWING		SCALE	1/1	REMARK	
CHECK	-	APPROVE	-	PROJECT	-	비밀	-

품번	품명	SIZE	수량	개입	비고
	2.0kW System Top View(2/Jul2014)				