



**FEUILLE DE Spécifications**  
*DATASHEET*

**P/N: AAMCS-AMP-0700M-2700M-50dB-50dBm-R**  
**Designation : 100W, 50dB, 0.7-2.7GHz Rack Amplifier**

**100W, 50dB, 700-2700MHz Amplifier**



Ed.	Par / By	Le	Observation
0	Belluot	28/01/2015	Création (ET15001)
1	Belluot	19/03/2015	Modif info alim remplacé par info PWR out analog


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<b>Caractéristiques électriques</b> <i>electrical specifications</i>		All measurements performed @ +25°C and +28Vdc unless specified other	
	<b>Conditions de mesures</b> <i>Measuring conditions</i>	<b>Mesures</b> <i>Measurements</i>	<b>Unités</b> <i>Units</i>
<b>Bande de fréquence</b> <i>Bandwidth</i>		700-2700	MHz
<b>Puissance de sortie</b> <i>Output power</i>	@ Psat & +25°C ambient	min. 48.5 typ. 51	dBm
<b>Puissance d'entrée</b> <i>Input power</i>	@ Psat Damage level	0 typ. +5 max. +10 max.	dBm
<b>Gain</b> <i>Gain</i>	Small signal @+25°C @ Psat	min. 50 max. 54 min. 45 min. 50 max. 55	dB
<b>Ondulation dans la bande</b> <i>In band ripple</i>	Small signal @ Psat	max.+/- 5 max.+/- 2	dB
<b>Adaptation d'entrée / sortie</b> <i>Input/output return loss</i>	Input Output	min.10 typ.17 min.10 typ.14	dB
<b>TOS de sortie</b> <i>Load mismatch</i>		10 :1	
<b>Distorsion harmonique</b> <i>Harmonics</i>	@ Psat	-15 typ. -10 max.	dBc
<b>Parasites</b> <i>Spurious</i>	@ Psat	-60 max.	dBc
<b>OIP3</b> <i>OIP3</i>	2 carriers 40 dBm each	typ. 57	dBm
<b>Temps d'extinction</b> <i>Noise quieting (blanking) time</i>		2 typ. 5 max.	us
<b>Temps de montée/descente</b> <i>Rise/fall time</i>		20 max.	ns
<b>Tension d'alimentation</b> <i>Supply voltage</i>		230 +/-10% 50 +/- 10%	Vac Hz
<b>Consommation</b> <i>Consumption</i>	Pout = 100W	typ. 1.5 max. 2.5	A

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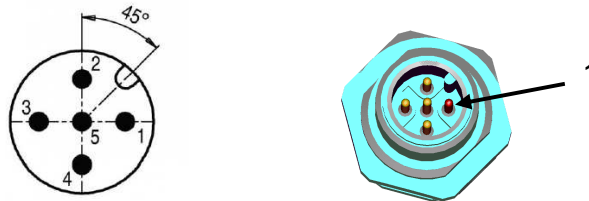
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### Monitoring & Control interface : J1 connector (Control)

Pin N°	Name	Type	Description
1	Alarm_temp_rack	Info TTL	high = Temp alarm
2	Cmd_Bias_Off	Ctrl TTL	high = RF bias OFF
3	Info puissance incidente	Info analog	Pout 48dBm Voltage : 700 ~ 1000mV, Scale : 25mV/dB
4	Blanking_On	Ctrl TTL	high = Blanking ON (RF OFF)
5	GND	GND	Grounded to chassis

#### J1 pinning :



Amplifier provided with 2m control cord (customer doesn't have to order the plug if not required).  
The amplifier is operational without plugging the control cable (if monitoring & control is not necessary).

### Internal protection & options

Type	Included or optional items	Description
Temperature protection	<b>Included in standard configuration</b>	autosutdown of the bias if temperature of the internal module baseplate exceeds +85°C – auto recovery when temperature decreases below 80°C)
Coupler	Option 1 (not included in standard conf.)	Directional coupler for monitoring of the forward output power
Remote control	Option 2 (not included in standard conf.)	Remote control with Man Machine Interface and microcontroller board
Gate protection	Option 3 (not included in standard conf.)	Gate current self protection
Reverse PWR protection	Option 4 (not included in standard conf.)	Reverse power ALC (automatic level control)

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### Caractéristiques mécaniques *Mechanical features*

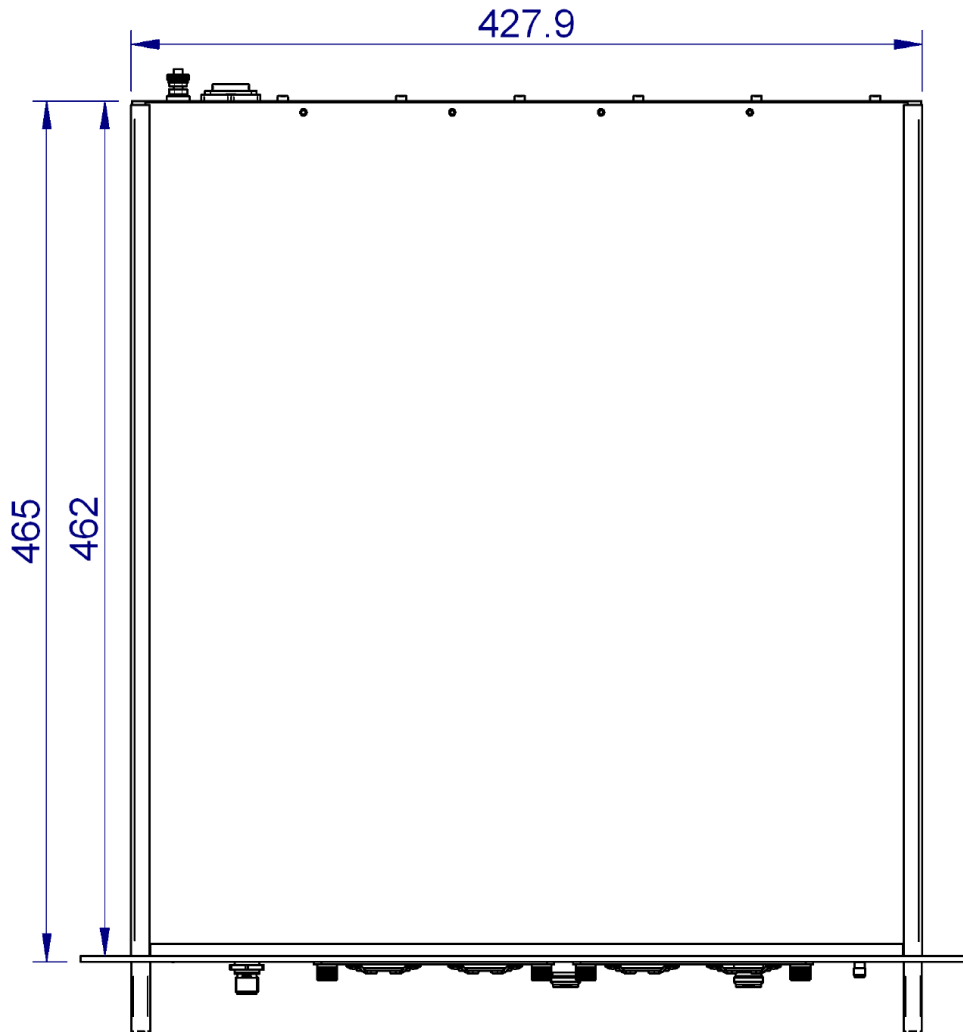
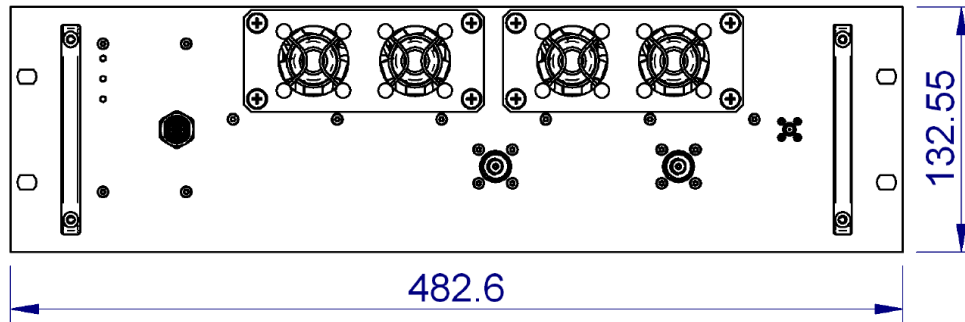
Paramètres <i>Parameters</i>	Conditions de mesure <i>Measuring conditions</i>	Spécifications AA-MCS <i>AA-MCS specifications</i>	Unités <i>Units</i>
<b>Longueur x largeur x Hauteur</b> <i>Length x width x height</i>	L x W x H ISO 2768-mH	465 x 19" x 3U (without connectors)	mm
<b>Dissipation</b> <i>Cooling</i>		Air cooled (integrated fans)	-
<b>Connectique RF</b> <i>RF Connectors</i>	Input Output 1 Output 2 (if directional coupler option chosen)	SMA female N female N female	-
<b>Connecteur de commande et d'alimentation</b> <i>Monitoring &amp; Control connector &amp; Supply</i>	J1 (Control)  J2 (Supply)	Connecteur femelle M12x1 5pts Male ref : Binder 09 3441 500 05 (amplifier provided with 2m control cable)  EIC plug	
<b>Poids</b> <i>Weight</i>		20 typ.	kg

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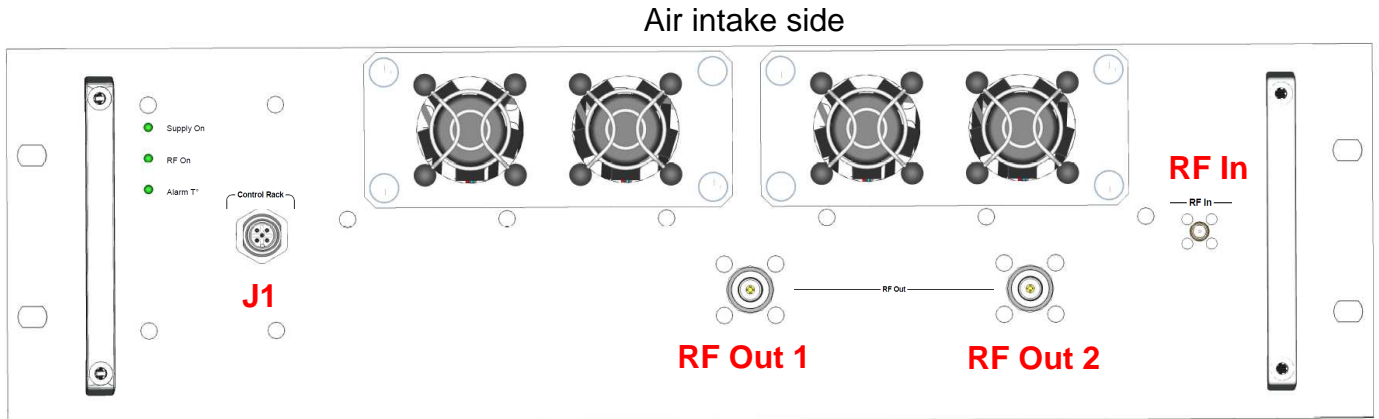
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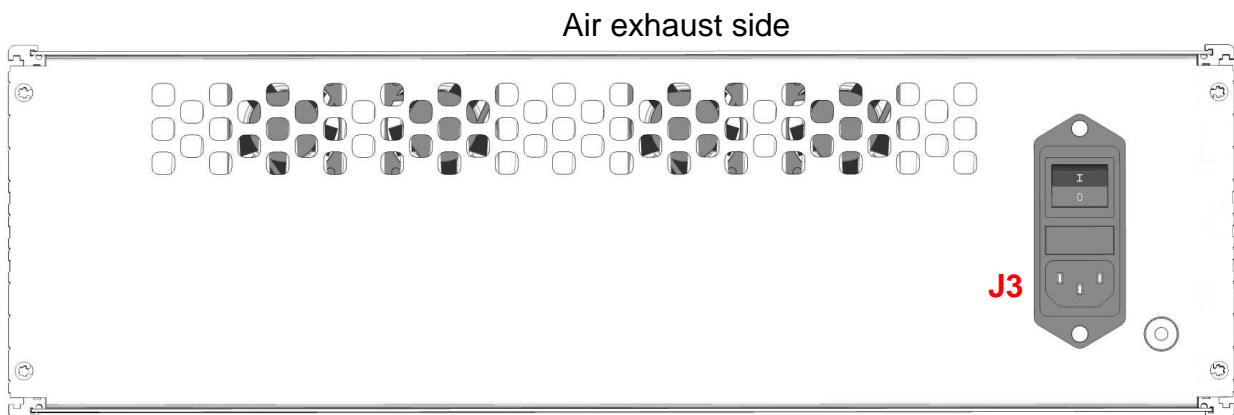
Monitoring & Control display : Front Panel

Pin N°	Name	Type	Description
1	Supply On	Green Led	highlighted = supply On off = supply Off
2	RF On	Yellow Led	highlighted = RF On off = RF Off
3	Alarm T°	Red Led	highlighted = alarm temperature off = temperature OK

**Front panel :**



**Rear Panel :**



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