泰莱微波
Talent Microwave

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Solid State High Power Amplifier Systems

6.5-7.2GHz/63dB Gain/63dBm Psat/380V AC Model: TLPA6.5GG7.2G-63-63-BC

TLPA6.5GG7.2G-63-63-BC is a solid state high power amplifier systems provides high output power and high gain across the 6.5 to 7.2 GHz frequency range. The amplifier features a built-in 380V power supply, making it easy to use in most lab environments. This model features thermal self protection, preventing damage to the amplifier and providing added reliability.

Features:

- Frequency range: 6.5-7.2GHz
- Gain: 63dB Min
- Psat Output Power: 63dBm Min
- Protection:Over TEM,over voltage, over current ,over VSWR protection
- 50 Ohm Matched Input / Output

Electrical Characteristics:

Parameter	Symbol	Min	Typ	Max	Units
Frequency range	BW	6.5		7.2	GHz
Working Mode	MOD	CW/PULSE compatible			
Power Gain@Pout=63dBm	GP	63			dB
Gain adjust Range	ΔGR		20		dB
Gain adjust Step	ΔGS		0.5		dB
Output Psat	Psat	63			dBm
Spurious@Pout=63dBm	Spur			-60	dBc
2nd Harmonics	HAM			-20	dBc
Input VSWR	VSWR			1.5	:1
AC Voltage	Vac		380		V AC
Power consumption@CW	Pdiss			8000	W

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	N Female/WR137	
Forward/Reverse Coupling	SMA Female/SMA Female	
DC Supply Connector	XMS3102A18	
Communication Connector	DB9	

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Mechanical Specifications:

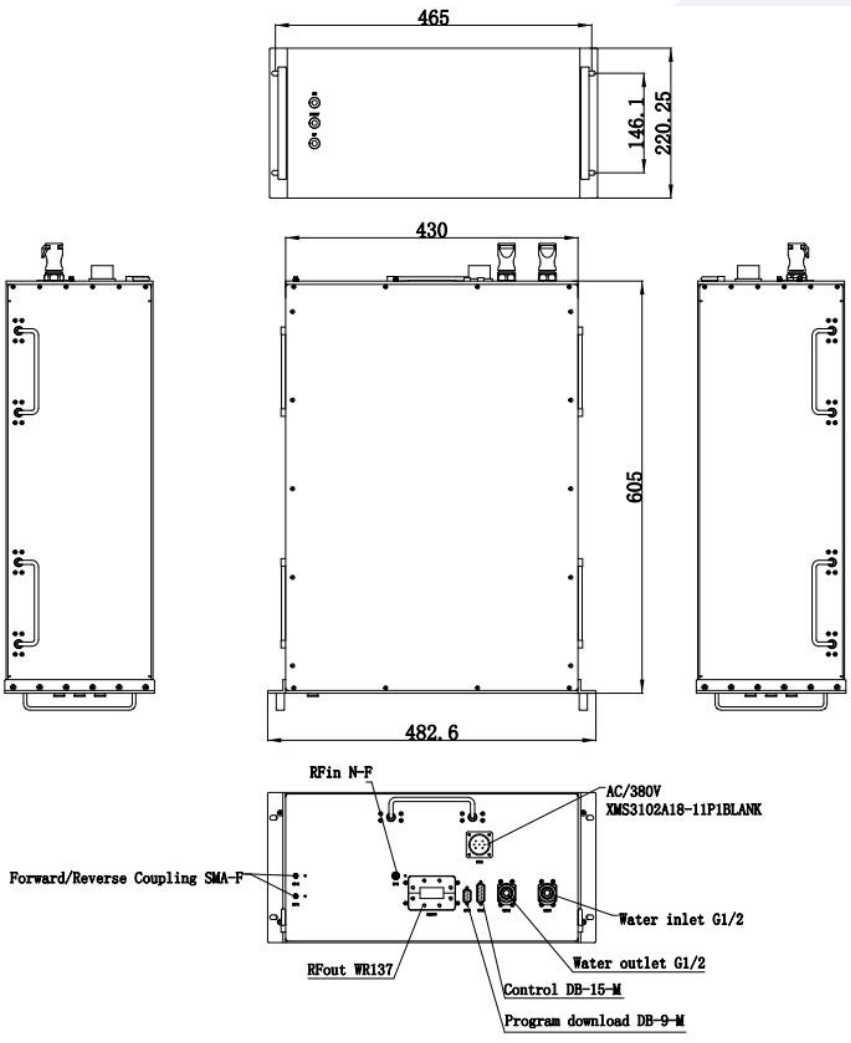
Parameter	Value	Units
Liquid Cooling Connector	G1/2	Refrigerant temperature: 20 - 25℃ Water pressure: ≥ 0.2 MPa Flow rate: ≥ 16 L/min
Size	19 Inch 5U*650 depth	mm
Weight	≤60	Kg

Absolute Maximum Ratings:

Parameter	Value
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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Key Features:

Parameter	Advantages
Control functions	1, Power setting on/off 2, RF setting on/off 3, ALC automatic level control
Protection functions	1, Over TEM 2, Over voltage 3, Over current 4, Over VSWR
Monitor functions	1, Module temperature 2, Operating voltage 3, Operating current 4, Output/reflected power
Remote control	RS422/Ethernet
Cooling system	Built in Cooling system, liquid cooling

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+40	℃
Non-operating Temperature*	-30		+50	℃
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

*Note: For a wider temperature range, please consult the manufacturer.

Ordering Information:

Base Number	Description	Revision
TLPA6.5GG7.2G-63-63-BC	Solid State High Power Amplifier Systems 6.5-7.2GHz,Gain:63dB,Psat:63dBm,380V AC, Liquid Cooling	Rev.1.0