

General Description

Part:	Solid-State High-Power Amplifier System 18-40GHz/50dB Gain/50dBm Psat/380 V AC
Model:	TLPA18G40G-50-50-BC
Part Description:	
The TLPA18G40G-50-50-BC is solid-state high-power amplifier systems provides high output power and high gain across the 18 to 40 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.	

Electrical Characteristics

No.	Parameter	Symbol	Minimum	Typical	Maximum	Units
1	Frequency range	BW	18		40	GHz
2	Power gain	GP	50			dB
3	Gain flatness	ΔGL		± 5		dB
4	Output Psat	Psat	50			dBm
5	Spurious@Pout = 50dBm	Spur			-50	dBc
6	Harmonics@Pout = 50dBm	HAM			-15	dBc
7	Input VSWR	VSWRin			2.0	:1
8	AC Voltage	Vac		220		V AC
9	Power consumption	Pdiss			3500	W
10	Impedance	I/O-IMP		50		Ohm

Mechanical Specifications

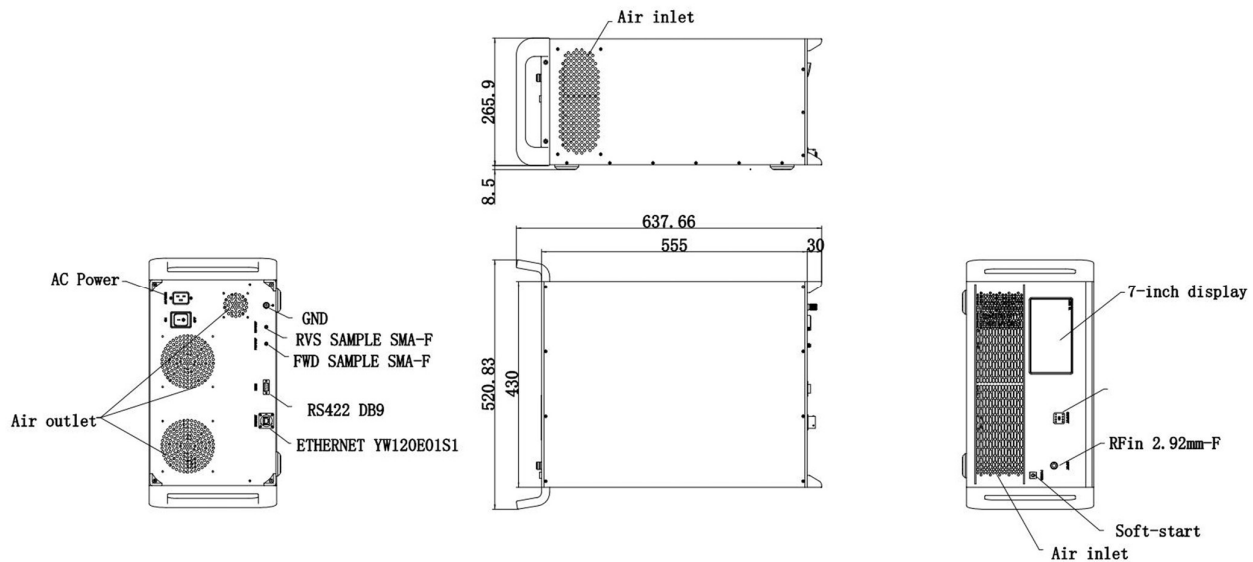
No.	Parameter	Value	Units	Note
1	Input connector	2.92	mm	Female
2	Output connector	WRD180		
3	Communication connector	DB9/RJ45		
4	Size	19 inch 6U		
5	Weight	≤ 55	kg	

Absolute Maximum Ratings

No.	Parameter	Value	Units	Note
1	RF Input power	+5	dBm	
2	ESD sensitivity (HBm)	passed 150	V	Class 0

Technical Drawing

Unit: mm;



TLPA18G40G-50-50-BC

Key Features

No.	Parameter	Advantages
1	Control functions	Program_controlled switching machine by network port and RS422, Adjust output power
2	Protection functions	Over TEM, Over voltage, Over current, Over VSWR
3	Display functions	Display the current out/reflected power, Display fault information
4	Cooling system	Built in cooling system, forced air cooling

Environmental Conditions

No.	Parameter	Minimum	Typical	Maximum	Units
1	Operating temperature	-20		+40	°C
2	Non-operating temperature	-30		+50	°C
3	Relative humidity		95		%
4	Altitude		10,000		feet
5	Shock/Vibration (MIL-STD-810F)	25g rms (15 degrees 2kHz) endurance, 1 hour per axis			
6	Shock (non-operating)	20G for 11msc half sine wave, 3 axis both directions			