

**Model:TLPA3.1G3.4G-68-68-P-BC**
**Solid State High Power Amplifier Systems  
 3.1-3.4GHz, Gain:68dB, Psat:68 dBm, 380V AC**
**Feature:**

- Wide Band: 3.1-3.4GHz
- Gain: 68dB Min
- Psat Output Power:68dBm Min
- Protection:Over TEM, over voltage, over current ,over VSWR protection.
- 50 Ohm Matched Input / Output

**Electrical Specifications:**

Parameter	Symbo	Min	Typ	Max	Units
Frequency range	BW	3.1-3.4			GHz
Power Gain@Pout=68dBm	SSGP	68			dB
Gain flatness	$\Delta$ GL		$\pm 3$		dB
Output Psat	Psat	68			dBm
Spurious@Pout=65dBm	Spur			-60	dBc
Harmonics@Pout=65dBm	HAM			-20	dBc
Modulation Signal Level	TTL	0		5	V
Modulation Frequency	MF	1		100	KHz
Pulse Width	T	0.3		500	us
Duty Cycle	$\tau$	0.1		20	%
Rise/Fall Time	Tr		50	100	ns
Pulse Drop@T=100us	Pdrop		0.5	1	dB
Input VSWR	VSWR		1.5	2	:1
AC Voltage	Vac		380		V AC
Power Consumption	Pdiss		6000		W
Impedance	I/O-IMP		50		Ohms

**Mechanical Specifications:**

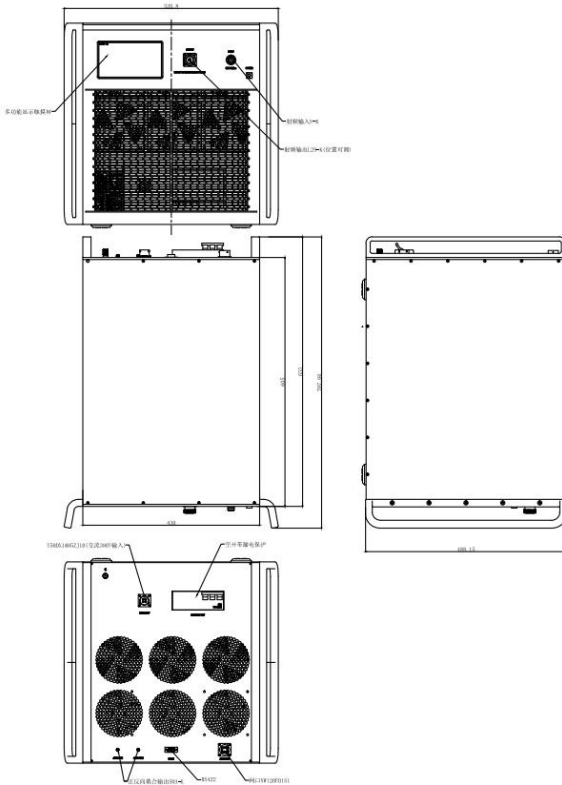
Parameter	Value	Units
Input /Output Connector	N Female/7/16 Din Female	
Forward/Reverse Coupling	SMA Female/SMA Female	
Communication Connector	DB9/RJ-45	
Size	19 Inch 11U*880 depth	mm
Weight	$\leq 100$	Kg

### Absolute Maximum Ratings:

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

### Outline Drawing:

Unit: mm



### Key Features:



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

Parameter	Advantages
Control functions	1, Power setting On/Off 2, ALC automatic level control
Protection functions	1, Over TEM 2, Over voltage 3, Over current protection 4, Over VSWR
Remote control	RS422/Ethernet
Cooling system	Built in Cooling system, forced air cooling

**Environmental Conditions:**

Parameter	Min	Typ	Max	Units
Operating Temperature	-20		+50	°C
Non-operating Temperature	-45		+65	°C
Relative humidity		95		%
Altitude	50000			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			

**Ordering Information:**

Part Number	Description	Revision
TLPA3.1G3.4G-68-68-P-BC	Solid State High Power Amplifier Systems 3.1-3.4GHz,Gain:68dB,Psat:68 dBm,380V AC,Built in Fan Cooling	Rev.1.0