泰莱微波
Talent Microwave

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# Solid State High Power Amplifier Systems

## 0.5-2.5GHz /60dB Gain/60 dBm Psat/380V AC  Model: TLPA0.5G2.5G-60-60-BC

TLPA0.5G2.5G-60-60-BC is a solid state high power amplifier systems provides high output power and high gain across the 0.5 to 2.5 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:

- Wide Band:0.5-2.5GHz
- Gain: 60dB Min
- Psat Output Power:60dBm 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 | | 0.5-2.5 | | GHz |
| Working Mode | MOD | | CW/PULSE compatible | | |
| Power Gain@Pout=60dBm | GP | 60 | | | dB |
| Linear Gain flatness | ΔGL | | ±3 | | dB |
| Output Psat | Psat | 60 | | | dBm |
| Spurious@Pout=60dBm | Spur | | | -60 | dBc |
| Harmonics@Pout=60dBm | HAM | | -15 | -10 | dBc |
| Input VSWR | VSWR | | | 1.5 | :1 |
| AC Voltage | Vac | | 380 | | V AC |
| AC Current | Iac | | 18 | | A |
| Power consumption | Pdiss | | 7000 | 8000 | 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 | |
| Front Panel LCD Screen Display | 7 inch LCD Screen Display | |
| Communication Connector | DB9/RJ-45 | |

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## Mechanical Specifications:

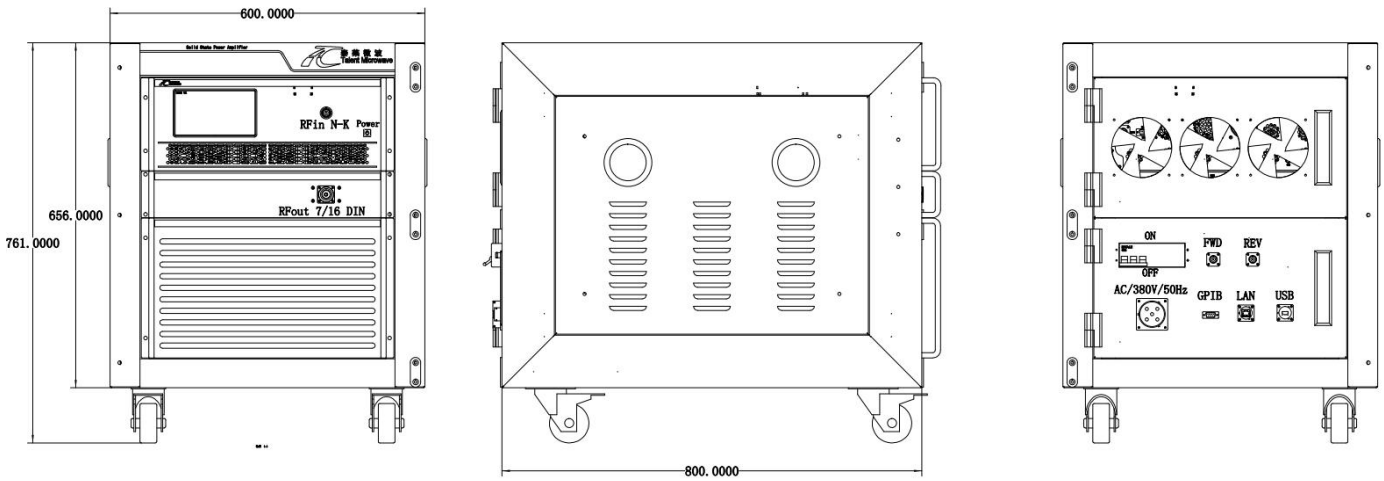
| Parameter | Value | Units |
|---|---|---|
| Size | 12U*800 depth | mm |
| Weight | ≤200 | Kg |

## Absolute Maximum Ratings:

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

## Outline Drawing:

Unit:mm



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## Key Features:

| Parameter | Advantages |
|---|---|
| Control functions | 1, Power setting On/Off<br>2,ALC automatic level control |
| Protection functions | 1,Over TEM<br>2,Over voltage<br>3,Over current<br>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 | | +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 | Desciption | Revision |
|---|---|---|
| TLPA0.5G2.5G-60-60-BC | Solid State High Power Amplifier Systems 0.5-2.5GHz,Gain:60dB,Psat:60 dBm,380V AC,Built in Fan Cooling | Rev.1.1 |