MTPA60280247472 is a air-cooled, broadband, solid state amplifier. This rack mount amplifier based on GaN technology provides high gain, high output power, wide dynamic range, and good linearity. The front panel gain control permits the operator to conveniently set the desired output level. The LCD display shows operate status including rack temperature, current, gain, and etc. Multiple self-protection techniques are implemented such as thermal overload, excessive current flow, Input overdrive, large mismatch, fan mal-function. The status indications are available via the LCD display accordingly. This unit is suitable in EMI/EMC test, satellite communication, RF/MW measurements, and other applications.

- High Power and Efficiency
- High Reliability and Ruggedness
- Ultra Broadband
- Built-in control, monitoring & protection circuits
- GPIB option -101



ELECTRICAL CHARACTERISTICS @ 220V/110V AC, +25° C, 50Ω

| PARAMETER | UNIT | MIN | TYPICAL | MAX |
|-------------------------------------------|-------|------|---------|----------|
| Frequency Response | MHz | 6000 | | 8000 |
| Power Gain | dB | | 47 | |
| Gain Flatness per 40MHz bandwidth | +/-dB | | 1 | |
| Gain Flatness via Temperature | +/-dB | | 2 | |
| Saturated Output Power | dBm | | 47 | |
| Efficiency @ Sat Output Power | % | | 25 | |
| Output Power @ 1dB gain compression point | dBm | | 43 | |
| Harmonic Distortion | dBc | | -20 | |
| Spurious Signals | dBc | | -60 | |
| load | ohm | | | Infinity |
| IM3@tall power 100W | dBm | | 50 | |
| Input VSWR | | | 1.5: 1 | 2: 1 |
| Output VSWR | | | 2: 1 | |

ENVIRONMENTAL SPECIFICATIONS (DESIGN TO MEET)

| PARAMETER | UNIT | MIN | TYPICAL | MAX |
|---------------------------|--------|-----|---------|-----|
| Voltage | V (AC) | | 220 | |
| Current | Α | | 2 | |
| Operating Temperature | °C | 0 | | 50 |
| Non-Operating Temperature | °C | -40 | | 70 |

MECHANICAL SPECIFICATIONS

| PARAMETER | UNIT | MIN | TYPICAL | MAX |
|----------------------|------|-----|----------------|-----|
| Dimensions W x H x D | Inch | | 25.00X19X6.00 | |
| Weight | KG | | 20 | |
| RF Input & Output | | | SMA(F), SMA(F) | |
| Option | | | GPIB(101) | |

PROTECTIONS

| PARAMETER | UNIT | MIN | TYPICAL | MAX |
|-------------------------|------|-----|--------------------------------|-----|
| Input Overdrive | dBm | | +5 | |
| Load Mismatch Tolerance | | | 5:1 @ all phase & amplitude | |
| Thermal Overload | °C | | 85 | |



OUTLINE DRAWINGS

