

HIGH VOLTAGE POWER SUPPLIES

Engineering and Design Capabilities

Brandt engineers have over 100 years of combined power supply design experience and utilize the latest design software (e.g. AutoCAD, OrCAD, Mathcad, PSpice). With over 350 field-proven power supply designs, Brandt has a fully computerized and integrated research and development system and is experienced with all conducted/radiated emissions and conducted/radiated susceptibility levels of MIL-STD-461.

Custom Design

Over 30% of our staff is dedicated to the development of new power supply designs. With over 350 models, we have proven our ability to take your requirements and turn them into successful and manufacturable designs. Prototype units typically take between three and seven months.

MPM

The combination of a solid-state amplifier, a vacuum power booster (TWT) and a power supply in a single package forms a Microwave Power Module. Brandt has successfully participated in several MPM programs to date.



Typical Operating Parameters

| | |
|------------------------|--|
| Input Voltages | 115/220VAC, 1-phase or 3-phase, 47Hz to 440Hz, 18VDC to 70VDC |
| Output Voltages | 800V to 36kV |
| Output Power | 1W to 7000W |
| Efficiency | Up to 92% |
| Protection | Arc, over current, over temperature, VSWR, and more |
| Environment | MIL-E-5400, MIL-STD-810, MIL- STD-2036 |

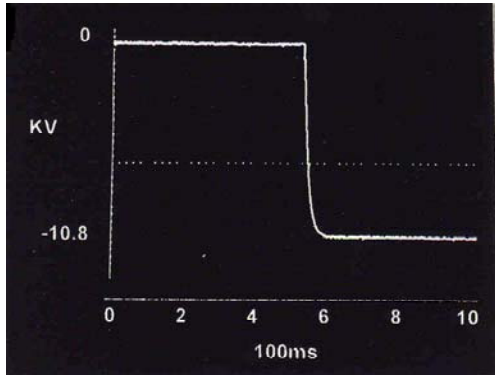
Typical Design Features

- High-reliability
- Tube interface protection features
- Fast turn-on characteristics
- Ruggedized design
- High efficiency
- Focus electrode or grid modulators
- Low ripple / noise parameters on cathode and heater output voltages

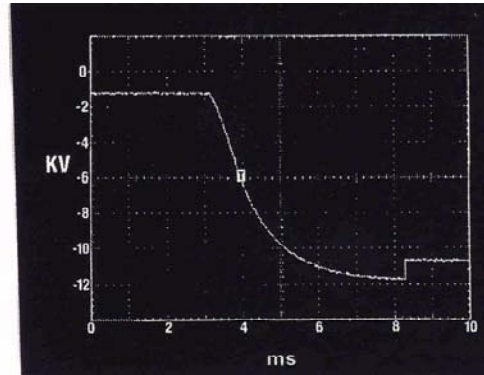
Typical Applications

- CRT displays
- Traveling wave tubes (TWTs)
- Microwave power modules (MPMs)
- Klystrons
- Magnetrons
- Ion pumps

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TURN-ON POWER



FE/BLANKING @ TURN-ON

| Model # | Input Voltage | Output Voltage | Output Power | Cooling Method | Special Features | Dimensions | Application |
|---------|----------------------------|----------------|--------------|-----------------|----------------------|--------------------------|--------------------------------|
| PS12106 | 47-70VDC | 24kV | 3600W | Water | High Level Vibration | ø11.3" x 6.81" | Magnetron Shipboard Jammer |
| PS12115 | 44-68VDC | -12kV | 655W | Conduction | Grid Modulator | Open Frame Configuration | Pulse TWT Expendable Jammer |
| PS12152 | 28VDC | 25kV | 21W | Conduction | Dynamic Focus | 9" x 6.75" x 1.5" | CRT Shipboard Display |
| PS12222 | 208VAC, 3-phase | -16kV | 6600W | Conduction | Dual Collector | 14" x 12" x 7" | CW TWT Com Ground Uplink |
| PS12225 | 28VDC | 3kV | 3W | Convection | N/A | 4" x 2.5" x 1.28" | Ion Pump ECM |
| PS12281 | 28VDC, 115/200VAC, 3-phase | -10.8kV | 1700W | Coolanol (JP-8) | FE Modulator | 18.7" x 8" x 7.7" | CW TWT Com UAV Uplink |
| PS12320 | 115/200VAC, 3-phase | 7.5kV | 5600W | Coolanol | 70,000 ft. Altitude | 8" x 9.5" x 16" | Klystron |
| PS12324 | 48VDC | 6.5kV | 200W | Convection | Low Ripple | 8" x 7" x 2" | TWT Telecom |