

# Solid-State Power Amplifiers for Particle Accelerators

## NEW PRODUCT RANGE

Recently released range of all solid-state, RF power amplifiers for particle accelerators

High power, CW systems based on the latest LDMOS technology

Modular systems : higher power systems available by combining multiple amplifier units

### Key specifications

**BT-Delta-CW** fixed frequency in range 300-600MHz  
output power 5kW, 10kW, 20kW, 40kW  
modular 19" system (5kW in 5RU chassis)

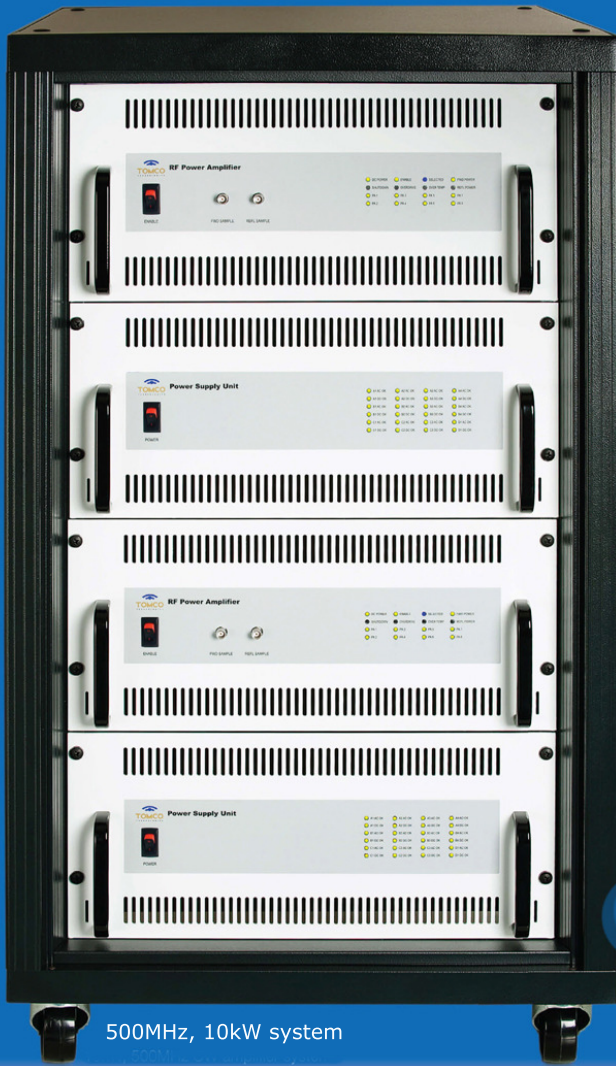
**BT-Lambda-CW** fixed frequency in range 600-900MHz  
output power 3kW, 6kW, 12kW, 24kW  
modular 19" system (3kW in 5RU chassis)

**Robustness:** unconditionally stable. Can withstand 100% reflection without foldback or shutdown. Can withstand the large pulsed reflections that may result from arcing during cavity conditioning

**Protection:** over-temp, water flow rate, condensation, over-drive, out-of-band input

**Redundancy:** 7 out of 8 PA redundancy standard. Higher redundancy options available. Power supply unit consists of multiple, independent, hot-pluggable modules

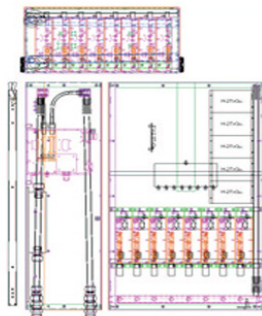
**Interface:** 3 levels of comprehensive interface providing a range of remote control and monitoring functions for each chassis



500MHz, 10kW system

Systems can be readily customized to match the requirements of different accelerator systems

- Rugged systems, extensive protection and diagnostics, inbuilt redundancy
- Standard 19" rack configurations
- Low ongoing costs and maintenance requirements



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