

- Pulse Step Modulation based “3 MW Dual Output HVPS” is developed as a novel concept for feeding cascaded chain of Radio Frequency Amplifiers. As Dual Output HVPS feeds to both stages of RF Amplifier, appeared as Cost Effective and Compact solution.
- A Dual Output HVPS able to deliver dc voltage intermediate stage and end stage of RF amplifier, subsequently 8-13.5 kV, 250 kW and 15-27 kV, 2800 kW. Besides same, it covers the operation at matched and mismatched load proving operation support at non-linear load.
- HVPS consists of Cast Resin Transformers and Metallic Enclosures housing power modules and controller, appeared as an enclosed modular solution having traceability to IEC standards. It also carries a European Conformity for Electro-Magnetic Compatibility (EMC) and Safety Directives.
- Extensive utilization of Dual Output HVPS for test campaigns of vacuum tubes based amplifiers (Tetrode and Diacrode) under extreme load conditions (higher voltage with lower current and vice a versa) without an interrupt demonstrates reliability and stability of indigenously developed HVPS. Operational support reaches beyond 100hrs cumulative, with single shot of 7200secs.
- Successful demonstration for ease of reconfiguration, modular concept facilitates for in-situ reconfiguration of output voltage.