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## The design of DC power bus bar for solid state power amplifier in NSRRC

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The National Synchrotron Radiation Research Center (NSRRC) has developed a 320 kW solid-state amplifier based on an 80 kW solid-state amplifier. In the design of the 80 kW amplifier, the DC power supply and solid-state amplifier racks were separated, with the DC power supply providing power to the solid-state amplifier power terminals through cables. This separation allows the DC power supply rack to be movable and not take up space in the solid-state amplifier rack. However, this design requires additional ground space to accommodate the DC power supply rack and requires significant staff and time to wire the cable connections. The 320 kW solid-state amplifier incorporates a bus bar design, which significantly reduces wiring space and time while also having a simpler appearance.

### Funding Agency

### Footnotes

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Yes

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