

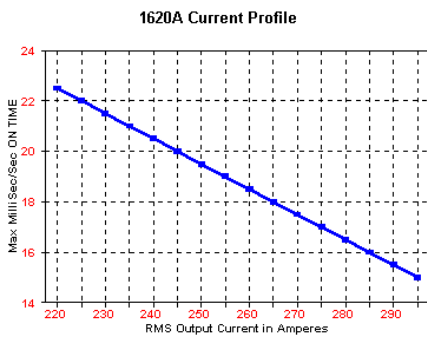


1620A High Current Capability – Parallel Operation

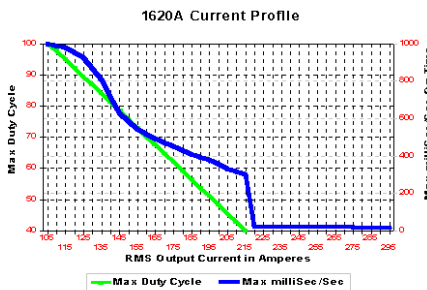
The Ballantine Model 1620A Transconductance Amplifier has the capability of being safely connected in parallel for very high current applications. Due to the unique protection and internal sensing capability that is designed into this instrument, there is an extensive capability for the high current user. Some of this capability is as follows:

1620A: Standard Current Parameters

Up to 300 Amperes RMS Pulse Current (Low duty cycle)



Greater than 200 Amperes RMS Repetitive Current (High duty cycle)



Greater than 100 Amperes RMS Continuous Current

Multiple 1620A's Connected in Parallel: Current Parameters (Parameters below are typical for six 1620A's connected in parallel)

- Higher Load Compliance Voltage above 20 Amperes
- Up to 1800 Amperes RMS Pulse Currents (Low duty cycle)
- 1200 Amperes RMS Repetitive Current (High duty cycle)
- 600 Amperes RMS Continuous Current

Multiple 1620A's may be safely connected in parallel on

any current range and driven from any signal source. The only limitation to reproduction of the voltage as a current waveform is the compliance voltage limitation created by inductive loads. The 1620's may be operated *continuously* or *pulsed* without detrimental effects.

Figure 1: Shows a typical connection for *very high current* Applications.

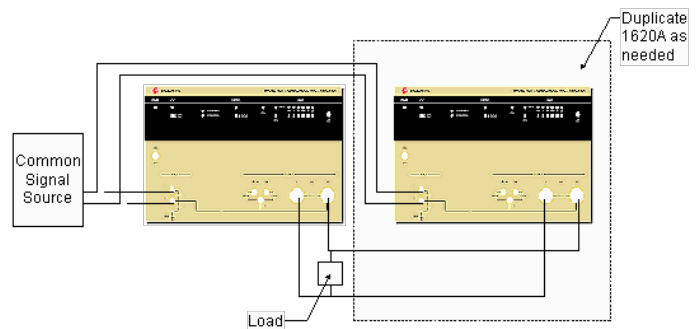


Figure 2: Shows a typical connection for *independent summed high current*.

