IMPORTANT!

Cooling Requirements for DNV7F2A VCCINT Power Supplies (PSU25/PSU17)

If either of the FPGAs draw greater than ~50amps from its respective VCCINT power supply (PSU25/17) the power supply will overheat and start rising in voltage which, depending on how hot it gets, can go beyond the absolute maximum VCCINT voltage specified in the Virtex-7 datasheet. This has the potential to damage the Virtex-7 device. If a user design is created that draws greater than ~50amps from VCCINT, then external airflow is required for cooling PSU25/17, such as that provided by chassis fans or a desk fan.