

ECLIPSE 500

Parallelable 500 W power supply for military and space applications

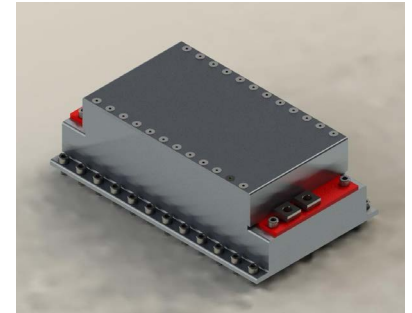
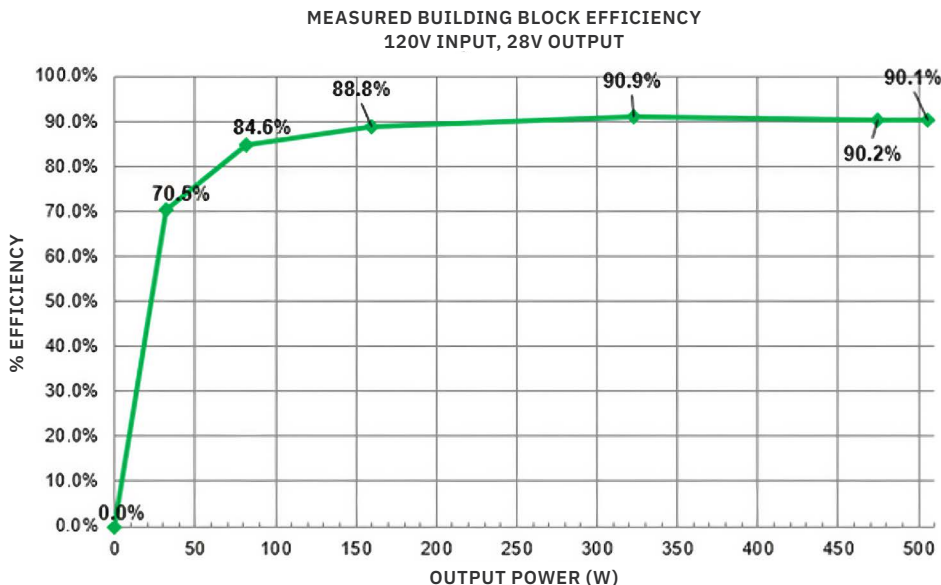
The L3Harris ECLIPSE 500 is a 500 W transformer isolated power supply. Each is enclosed in a machined aluminum 3U plug-in module and conducts heat to a heat sink or cold plate. Each unit serves as a power supply “building block” and can be paralleled in unlimited numbers to provide kilowatts of output power.

Eclipse 500 modules are highly configurable and provide approximately 90 percent efficiency in typical applications. High efficiency is achieved by using radiation hard gallium nitride field effect transistors (GaN FETs).

The module thermal design allows for operation in a vacuum using conduction cooling only, permitting operation in space or at high altitude. They are also designed to survive high shock and vibration.

POWER CAPABILITIES

- > Configurable for input voltages from approx. 12 V to 500 V
- > Configurable for output voltages from approx. 2.5 V to >1 kV
- > Compatible with 120 V and 28 V power buses
- > Able to create 28 V buses from 120 V



KEY FEATURES

- > Approximately 6 L x 3 W x 2 H in
- > Approximately 1 lb
- > 500 W transformer isolated power supply
- > MIL-STD-461 EMI filter design
- > No restriction on the number of units paralleled
- > Parts screening from automotive qualified to Grade-1
 - COTS, military or space-grade versions available
- > Uses GaN FETs up to 1 MHz
- > Baseline design is radiation and single event hard (100 krad/75 MeV)
 - Configurable for radiation hardened or radiation tolerant
- > 3U plug-in module
- > Configurable as a battery charger
- > No module-to-module interconnect in power sharing mode

Eclipse 500

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