

DC TRANSIENT BOOST CONVERTER

Designed to support variable speed power generators, TDI Power's LiquaCore Transient Assist Converter (L-TAC) provides energy hold up to a high voltage DC intermediate bus during periods where engine speed is ramping up to support the generator's output load. Enabling transient energy storage via a 24V battery, the L-TAC provides a size and cost effective, solid state solution that reliably operates in the severe physical environments normally involved in mobile power generation.



Features:

- Convection Cooling
- IP67 and IP6k9k Environmental Protection
- 18-30 VDC Input Battery Voltage
- Transient Assist Output for a 400V Buss
- Galvanic Isolation Input - Output
- ROHS Compliant

This product is designed to use a 24V battery to supply bus power under situations where a generator bus drops below it's minimum for a short period of time, such as during load transients before the engine can throttle up. This unit is designed to remain passively across the bus and act as an "active capacitor" to convert energy from 24VDC to high voltage during load transients.

| Specifications | |
|-------------------------------------|--|
| Input | |
| Voltage | 18-30VDC. |
| Current Draw during Disable State | 0.1mA Max. |
| OUTPUT | |
| Voltage | 384 Nominal at no load / 355VDC Min. to 395VDC Max. |
| Current | 40A, 3 second pulse |
| Power | 15000W, 3 second pulse |
| Time Between Pulses (min) | 300 seconds |
| Dimensions | W19.16 x L9.42 x H5.2 inches |
| Weight | 25kg (12.3lb) |
| Protection | |
| Input Over-Voltage | When input exceeds 35VDC |
| Output Over-Voltage | Output exceeds 460 V |
| Output Over-Current | Overload and short circuit protection with current limit of 42A |
| Over-Temperature | Shutdown protection based on heatsink temperature and internal ambient temperature |
| Electronic Control Inputs | |
| Enable | Pull Enable signal low to enable (to FAULT_RTN) |
| Connectors | |
| Input | Threaded Studs |
| Output | Circular MIL Spec Connector (P/N MS3102R22-2S) |
| Signal | DT04-3P-LE12 |
| Environmental Specifications | |
| Cooling | Convection cooling (no fans or blowers) |
| Operating Temperature | -40°C to +55°C |

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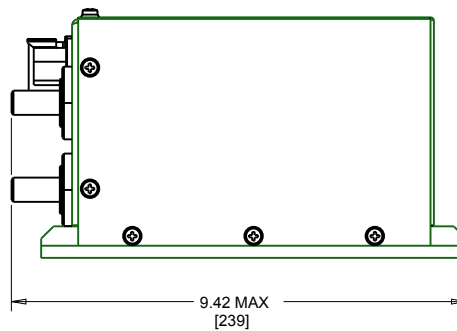
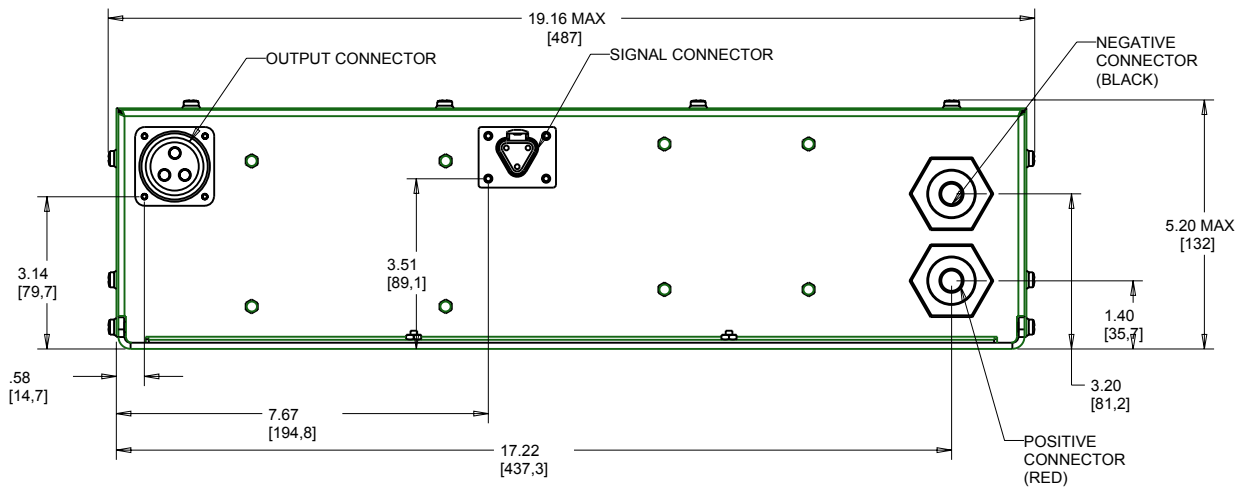
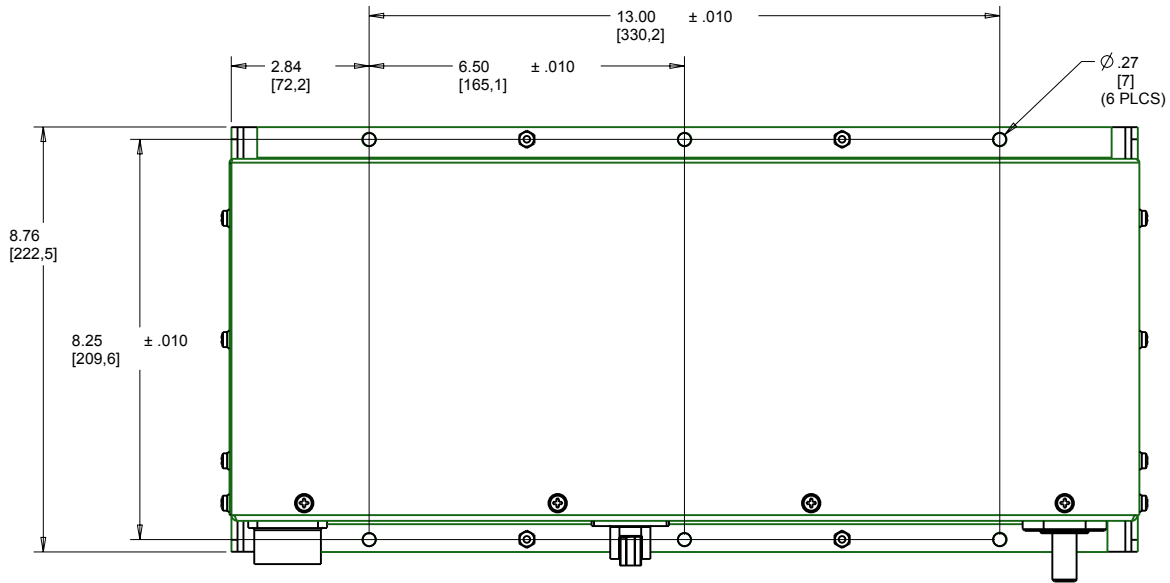
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