

200 Watts

DSF200LV



- 7 A Output Current
- Active Surge Protection
- MIL-STD-461E
- DEF-STAN 59-41
- MIL-STD 1275B
- DEF STAN 61-5 Pt 6
- Reverse Voltage Protection

Specification

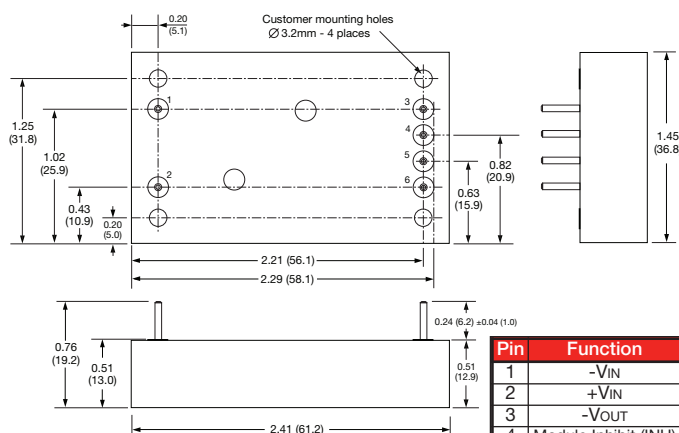
Input

- Input Voltage Range**
- 18-36 VDC at 7 A
 - 9-18 VDC at 3 A
- Input Transient**
- 600 V for 10 μ s 50 Ω source impedance per MIL-STD-704A
 - ± 250 V for 50 μ s 15mJ per MIL-STD-1275B
 - 100V for 50ms 0.5 Ω per MIL-STD-1275B
- Input Reverse Voltage Protection**
- Continuous

Output

- Output Voltage**
- Clamped <36 VDC
- Output Current**
- 7 A max over full operating temperature
- Output Module Inhibit (INH)**
- When the output current >7.77 A, then the INH pin is low. This can be used to inhibit downstream DC-DC converters and reduce the load on the filter.
 - When the output current <7.77 A, then the INH pin is logic high

Mechanical Details



All dimensions in inches (mm). Tolerance: ± 0.008 (± 0.2). Pin diameter 0.04 (1.0). Weight: 0.18 lb (80g) approx.

Models and Ratings

Output Current	Output Voltage	Input Voltage	Efficiency	Model Number
3 A	<36 VDC	9-18 VDC	92%	DSF200LV
7 A	<36 VDC	18-36 VDC	93%	

General

- Efficiency**
- 92% minimum
- Isolation Voltage**
- 500 VDC Input and Output to Case
- Series Resistance**
- 0.26 Ω
- Disabled Input Current**
- 25 μ A
- Disable**
- Product is disabled when DIS is connected to 0VDC
- No Load Current**
- 50 μ A
- Package Style**
- Photo-etched steel conductively-plated case with aluminium cooling baseplate

Environmental

- Operating Temperature**
- -40 $^{\circ}$ C to +100 $^{\circ}$ C baseplate temperature
- Storage Temperature**
- -55 $^{\circ}$ C to +100 $^{\circ}$ C ambient
- Shock**
- 15 G, 25 ms shock MIL-STD-901D
 - MIL-STD-810F 516.5-1 function test for ground equipment 40 G in 3 axes
- Vibration**
- MIL-STD-167, vibration 5-33 Hz, 0.5 mm displacement.
 - MIL-STD-810F, levels shown in method 514.5C-17 Minimum Integrity Test for Military equipment (1 Hr / axis, 3 axes)

EMC & Safety

Immunity

- The DSF200LV is designed to enable users to bring industrial DC-DC converters such as JTA, DCH/CBS, ICH and V24 in compliance with 24/28Vin military input surge and transient requirements found in MIL-STD 1275B and DEF-STAN 61-5 pt 6.

Safety Approvals

EMC Performance

- CE marked LVD
- The DSF200LV is designed to enable users to bring industrial DC-DC converters in compliance with 24/28Vin military EMI limits typically required on vehicles and aircraft. The DSF200LV has been tested by XP as a system input module with the DC-DC converter series JTA, DCH, ICH and V24, and it has been found that compliance to MIL-STD 461E CE102 and DEF STAN 59-41 DCE01 / DCE02 can be achieved with the addition of some external components. Please consult XP technical sales for more information.