

Features:

- 8W DIL Package
- Industry Standard Package
- 9-18V, 18-36V, 36-72V, 9-36V Wide Input Range
- 100% Burned In
- Regulated Output
- High Efficiency
- UL 94V-0 Package Material
- Custom Solutions Available

Specifications:

Output Specifications	Voltage Setpoint Accuracy Temperature Coefficient Ripple & Noise (20MHz BW) ¹ Line Regulation ² Load Regulation ³ Minimum Load Short Circuit Protection Short Circuit Restart Over Load Protection Transient Response ⁴	+/-2% max +/-0.03%/°C 100mVp-p max +/-0.2% max +/-0.2% max 10% of Full Load Continuous Automatic 180% Typ 200uS max
Input Specifications	Input Voltage Range Input Filter Protection	2:1 4:1 Input Range Pi Network Fuse Recommended
Environmental Specifications	Operating Temperature Storage Temperature Humidity Cooling	-25°C to +71°C -55°C to +125°C 95% max Free-Air Convection
General Specifications	Efficiency Isolation Voltage ⁵ Isolation Resistance Isolation Capacitance Switching Frequency MTBF ⁶ Weight Case Material Case Size Potting Material Conducted Emissions Radiated Emissions	70% min 1000VDC min 109 ohms min 500pF max 100 KHz min >700,000 Hours 31.2g Typ Six-Side Shielded Case 50.8mm*25.4mm*11.2mm Epoxy(UL94-V0) EN55022 Class A EN55022 Class A

All Specifications Typical at Nominal Line, Full Load, and 25 °C Unless Otherwise Noted.

Footnotes: ¹ Measured with 1uF ceramic capacitor connect to the output pins. ² High Line to Low Line.
³ Load Regulation is for output load current change from 10% to 100%. ⁴ 25% Step Load Change.
⁵ For 10 seconds. ⁶ MIL-HDBK-217F @25°C , Ground Benign.

Selection Guide 2:1 8 W Output

MODEL NUMBER	INPUT VOLTAGE (VDC)	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (mA)	INPUT ¹ CURRENT(mA)		EFF (%) ²	ISOLATION (VDC)
				FULL LOAD	NO LOAD		
EP9-18-03,3S2000	9-18	3.3	2000	753	50	73	1000
EP9-18-05S1600	9-18	5	1600	888	50	75	1000
EP9-18-09S888	9-18	9	888	813	50	82	1000
EP9-18-12S670	9-18	12	670	813	50	82	1000
EP9-18-15S533	9-18	15	533	803	50	83	1000
EP9-18-05D800	9-18	+/-5	+/-800	867	50	77	1000
EP9-18-09D444	9-18	+/-9	+/-444	860	40	78	1000
EP9-18-12D335	9-18	+/-12	+/-335	813	50	82	1000
EP9-18-15D267	9-18	+/-15	+/-267	803	50	83	1000
EP18-36-03,3S2000	18-36	3.3	2000	367	25	75	1000
EP18-36-05S1600	18-36	5	1600	422	25	79	1000
EP18-36-09S888	18-36	9	888	402	25	83	1000
EP18-36-12S670	18-36	12	670	402	25	83	1000
EP18-36-15S533	18-36	15	533	402	25	83	1000
EP18-36-05D800	18-36	+/-5	+/-800	422	25	79	1000
EP18-36-09D444	18-36	+/-9	+/-444	420	30	79	1000
EP18-36-12D335	18-36	+/-12	+/-335	402	25	83	1000
EP18-36-15D267	18-36	+/-15	+/-267	402	25	83	1000
EP36-72-03,3S2000	36-72	3.3	2000	183	15	75	1000
EP36-72-05S1600	36-72	5	1600	210	15	79	1000
EP36-72-09S888	36-72	9	888	201	15	83	1000
EP36-72-12S670	36-72	12	670	201	15	83	1000
EP36-72-15S533	36-72	15	533	201	15	83	1000
EP36-72-05D800	36-72	+/-5	+/-800	201	15	83	1000
EP36-72-09D444	36-72	+/-9	+/-444	201	15	83	1000
EP36-72-12D335	36-72	+/-12	+/-335	201	15	83	1000
EP36-72-15D267	36-72	+/-15	+/-267	201	15	83	1000

Selection Guide 4:1 8 W Output

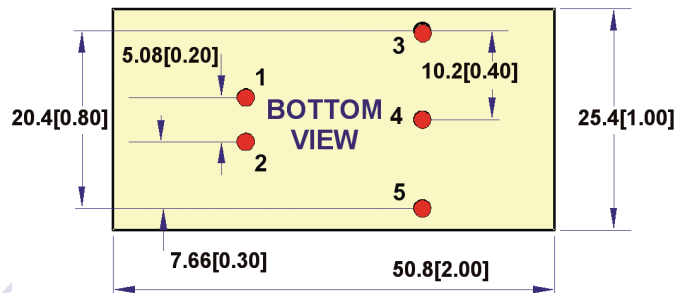
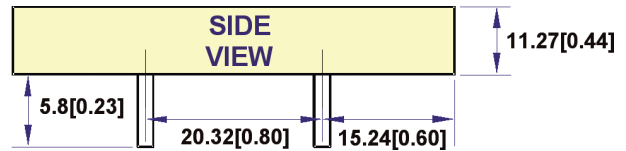
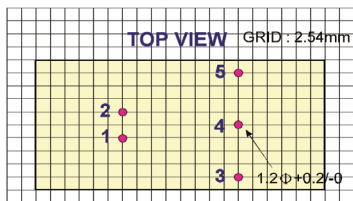
MODEL NUMBER	INPUT VOLTAGE (VDC)	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (mA)	INPUT ¹ CURRENT(mA)		EFF (%) ²	ISOLATION (VDC)
				FULL LOAD	NO LOAD		
EP9-36-05S1600	9-36	5	1600	888	40	75	1000
EP9-36-05D800	9-36	+/-5	+/-800	888	40	75	1000

Note: Other input to output voltages may be available. Please contact factory.

Footnotes: ¹ Nominal Input Voltage ² Nominal Input Voltage, Full Load

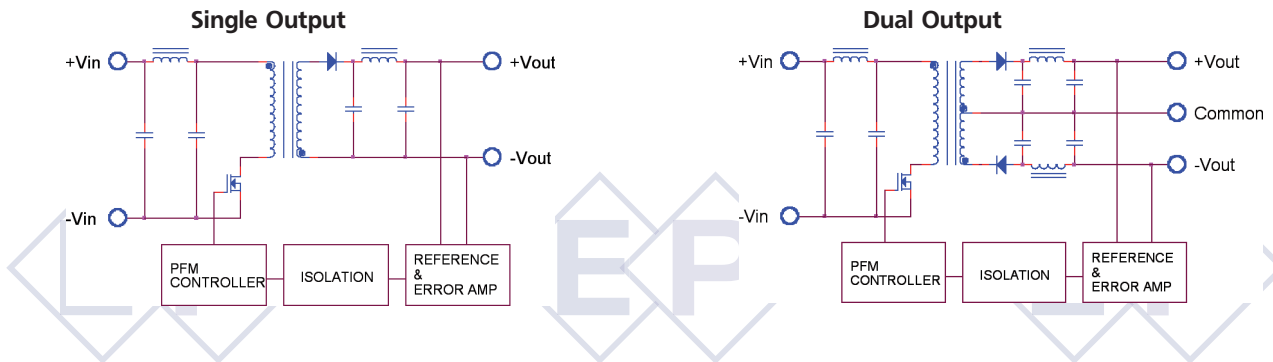
Mechanical Dimensions & Recommended Footprint Details

PIN	SINGLE	DUAL
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vout	+Vout
4	No Pin	Common
5	-Vout	-Vout



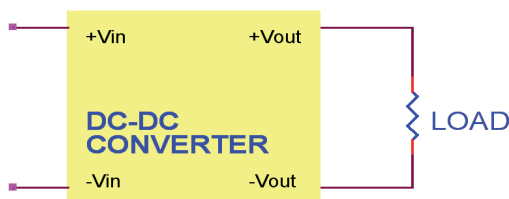
All dimensions are in mm (inches)
Note: Tolerance mm $\pm 0,25$ /(inch) $\pm 0,01$

Simplified Schematic

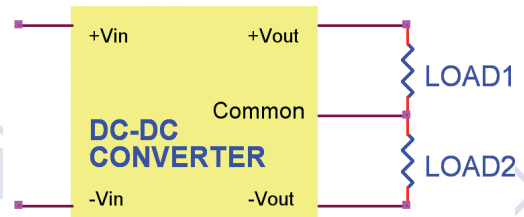


Typical Applications

Single Output

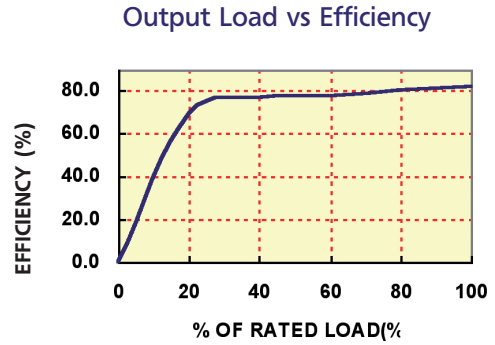
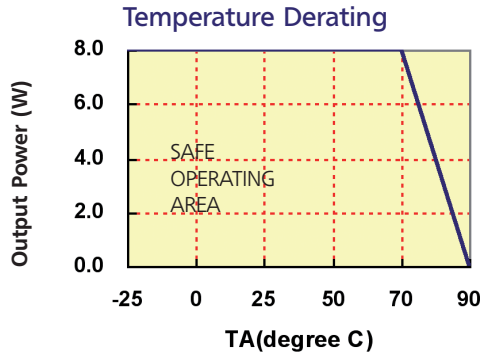


Dual Output



Typical Performance Curves

Specifications typical at $t_a=25\text{ }^\circ\text{C}$, nominal input voltage, rated output current unless otherwise specified.



Input Fuse Selection Guide

9-18V or 9-36V Input Voltage(VDC)	18-36V Input Voltage(VDC)	36-72V Input Voltage(VDC)
1500mA Slow- Blow Type	700mA Slow- Blow Type	350mA Slow- Blow Type



Note: Certain applications may require the installation of external fuse in front of the input.

EP Series Application Notes

External Capacitance Requirements:

No external capacitance is required for operation of the EP series.

To meet the reflected ripple requirements of the converter, an input impedance of less than 0.5 ohm from DC to 220KHz is required.

External output capacitance is not required for operation, however it is recommended that 10uF tantalum and 0.1uF ceramic capacitance be selected for reduced system noise.

Additional output capacitance may be added for increased filtering, but should not exceed 1000uF.

We Can Offer EMC-Filter According To EN55011/22 Class B.

Negative Outputs:

A negative output voltage may be obtained by connecting the +OUT to circuit ground and connecting -OUT as the negative output.

Spezifikationen können jederzeit ohne Vorankündigung geändert werden./Subject to change without notice.