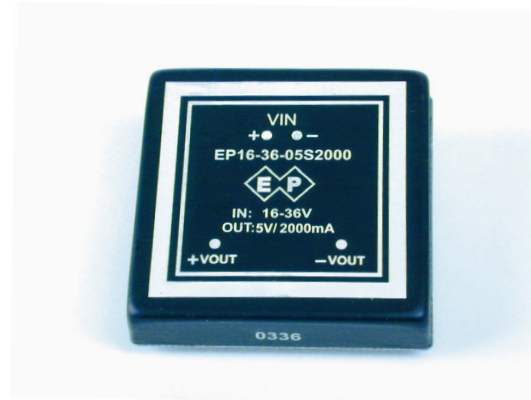


Features:

- 10W DIL Package
- 4.5-9V,9-18V,18-36V,36-72V Wide Input Range
- Short Circuit Protection
- Low Cost
- No External Components Required
- Regulated Output
- Typical Efficiency 80%
- 100% Burned In
- Industry Standard Package
- MTBF > 700,000 Hours



Specifications:

Output Specifications

- Voltage Setpoint Accuracy +/--2% max
- Temperature Coefficient +/--0.05%/ °C
- Ripple & Noise (20MHz BW)¹ 100mVp-p max
- Line Regulation² +/--0.2% max
- Load Regulation³ +/--0.2% max
- Minimum Load 10% of Full Load
- Short Circuit Protection Continuous
- Short Circuit Restart Automatic
- Over Load Protection 180% Typ
- Transient Response⁴ 200uS max

Input Specifications

- Input Voltage Range 2:1 or 4:1 Input Range
- Input Filter Pi Network
- Protection Fuse Recommended

Environmental Specifications

- Operating Temperature -25 OC to +71 °C
- Storage Temperature -55 OC to +125 °C
- Humidity 95% max
- Cooling Free-Air Convection

General Specifications

- Efficiency 70% min
- Isolation Voltage⁵ 1000 VDC min
- Isolation Resistance 10⁹ ohms min
- Isolation Capacitance 500pF max
- Switching Frequency 150 KHz min
- MTBF⁶ 700,000 Hours
- Weight 60.0g Typ
- Case Material Six-Side Shielded Case
- Case Size 50.8mm*50.8mm*11mm
- Potting Material Epoxy(UL94-V0)
- Conducted Emissions EN55022 Class A
- Radiated Emissions 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 10W Output

MODEL NUMBER	INPUT VOLTAGE (VDC)	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (mA)	INPUT ¹ CURRENT(mA)		EFF (%) ²	ISOLATION (VDC)
				FULL LOAD	NO LOAD		
EP4.5-09-05S2000LE	4.5-9	5	2000	2857	100	70	1000
EP4.5-09-12S830LE	4.5-9	12	830	2777	100	72	1000
EP4.5-15S670LE	4.5-9	15	670	2777	100	72	1000
EP9-18-05S2000LE	9-18	5	2000	1068	30	78	1000
EP9-18-12S830LE	9-18	12	830	1040	30	80	1000
EP9-18-15S670LE	9-18	15	670	1020	28	81	1000
EP9-18-24S416LE	9-18	24	416	1020	28	82	1000
EP9-18-05D1000LE	9-18	+/-5	+/-1000	1068	30	78	1000
EP9-18-12D416LE	9-18	+/-12	+/-416	1029	30	81	1000
EP9-18-15D333LE	9-18	+/-15	+/-333	1020	28	82	1000
EP9-18-24D208LE	9-18	+/-24	+/-208	1052	28	79	1000
EP16-36-05S2000LE	16-36	5	2000	527	18	79	1000
EP16-36-12S830LE	16-36	12	830	508	18	82	1000
EP16-36-15S670LE	16-36	15	670	502	18	83	1000
EP16-36-24S416LE	16-36	24	416	502	18	83	1000
EP16-36-05D1000LE	16-36	+/-5	+/-1000	527	20	79	1000
EP16-36-12D416LE	16-36	+/-12	+/-416	508	18	82	1000
EP16-36-15D333LE	16-36	+/-15	+/-333	510	18	82	1000
EP16-36-24D208LE	16-36	+/-24	+/-208	520	20	80	1000
EP36-72-05S2000LE	36-72	5	2000	264	10	79	1000
EP36-72-12S830LE	36-72	12	830	254	9	82	1000
EP36-72-15S670LE	36-72	15	670	254	9	82	1000
EP36-72-24S416LE	36-72	24	416	254	9	82	1000
EP36-72-05D1000LE	36-72	+/-5	+/-1000	264	10	9	1000
EP36-72-12D416LE	36-72	+/-12	+/-416	254	9	82	1000
EP36-72-15D333LE	36-72	+/-15	+/-333	254	9	82	1000
EP36-72-24D208LE	36-72	+/-24	+/-208	254	9	82	1000

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

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

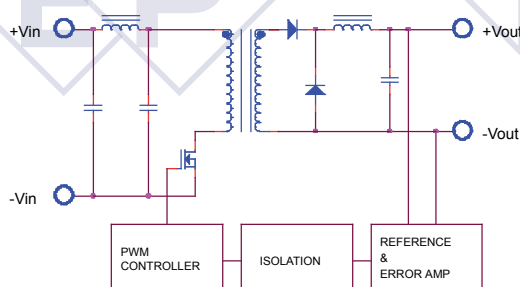
Selection Guide 4:1 10W Output

MODEL NUMBER	INPUT VOLTAGE (VDC)	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (mA)	INPUT ¹ CURRENT(mA)		EFF (%) ²	ISOLATION (VDC)
				FULL LOAD	NO LOAD		
EP9-36-05S2000LE	9-36	5	2000	1075	30	78	1000
EP9-36-12S830LE	9-36	12	830	1046	30	80	1000
EP9-36-12S670LE	9-36	15	670	1025	28	81	1000
EP9-36-24S416LE	9-36	24	416	1020	28	82	1000
EP9-36-05D1000LE	9-36	+/-5	+/-1000	1076	30	77	1000
EP9-36-12D416LE	9-36	+/-12	+/-416	1032	30	81	1000
EP9-36-15D333LE	9-36	+/-15	+/-333	1035	28	81	1000
EP9-36-24D208LE	9-36	+/-24	+/-208	1052	28	79	1000
EP18-72-05S2000LE	18-72	5	2000	527	18	79	1000
EP18-72-12S830LE	18-72	12	830	508	18	82	1000
EP18-72-15S670LE	18-72	15	670	512	18	81	1000
EP18-72-24S416LE	18-72	24	416	512	18	81	1000
EP18-72-05D1000LE	18-72	+/-5	+/-1000	527	20	79	1000
EP18-72-12D416LE	18-72	+/-12	+/-416	513	18	81	1000
EP18-72-15D333LE	18-72	+/-15	+/-333	513	18	81	1000

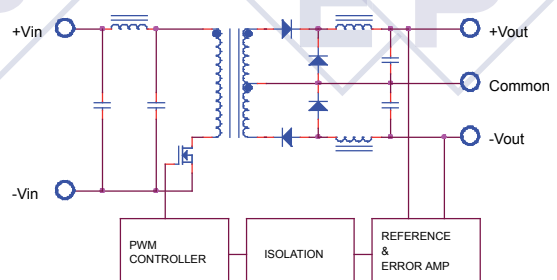
Note: Other input to output voltages may be available. Please contact factory.

Simplified Schematic

Single Output



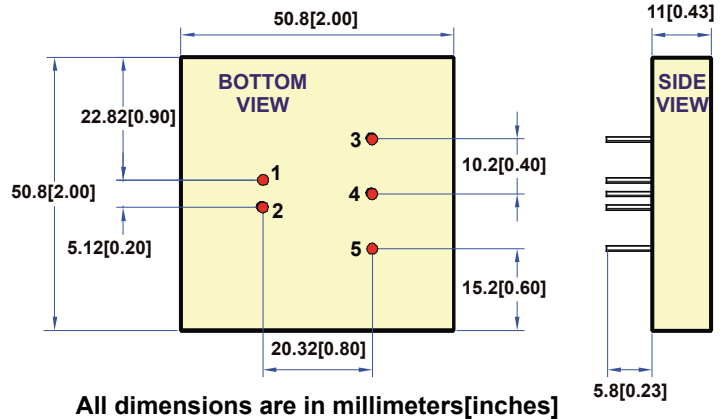
Dual Output



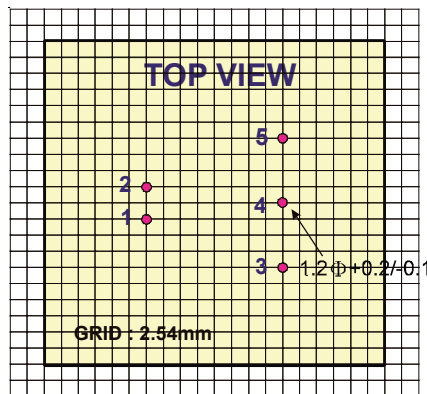
Footnotes: 1 Nominal Input Voltage
2 Nominal Input Voltage,full Load

Mechanical Dimensions & Recommended Footprint Details

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

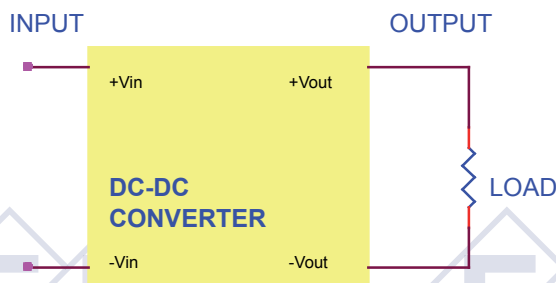


All dimensions are in millimeters[inches]

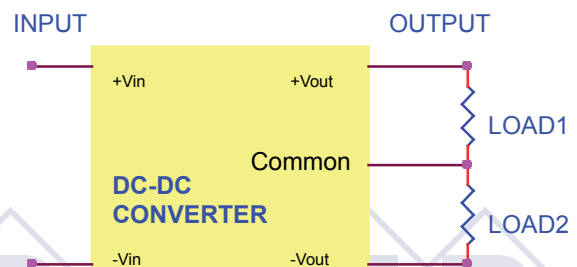


Typical Applications

Single Output

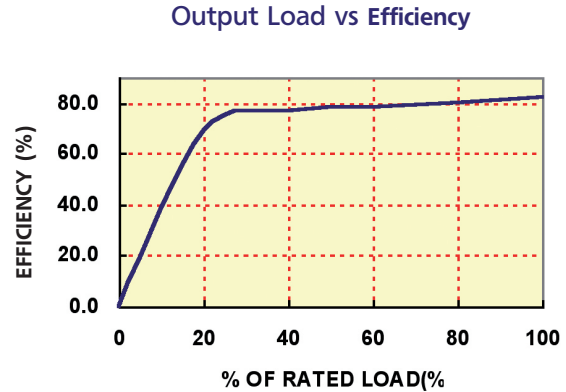
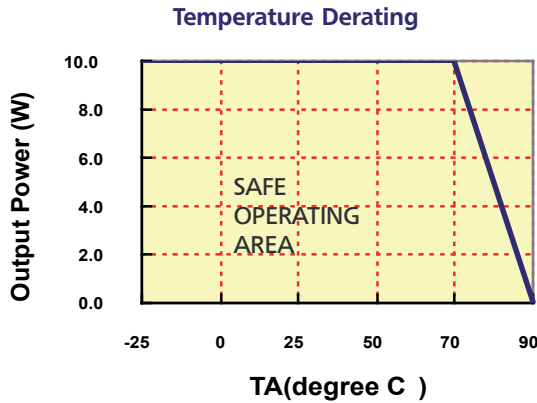


Dual Output



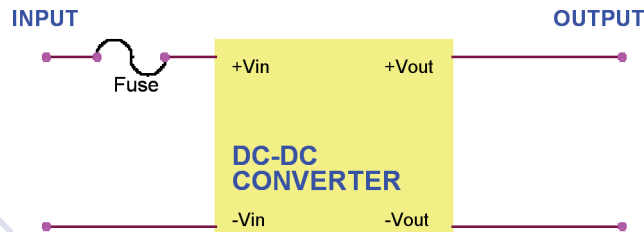
Typical Performance Curves

Specifications typical at Ta=25 °C, nominal input voltage, rated output current unless otherwise specified.



Input Fuse Selection Guide

4.5-9V Input Voltage(VDC)	9-18 or 9-36V Input Voltage(VDC)	16-36V or 18-72V Input Voltage(VDC)	36-72V Input Voltage(VDC)
5000mA Slow-Blow Type	1800mA Slow-Blow Type	1200mA Slow-Blow Type	450mA Slow-Blow Type



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

EP-LE SERIES APPLICATION NOTES

External Capacitance Requirements:

No external capacitance is required for operation of the EP-LE 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.

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.