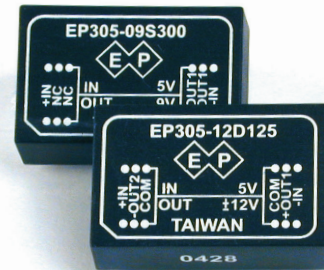


Features:

- 1000VDC Isolation
- High Efficiency
- Six-Sided Shield To Reduce EMI
- Low Cost
- No External Components Required
- Up To 3W Regulated Output Power
- Dual In Line Package
- 100% Burned In
- Low Noise
- MTBF > 850,000 Hours



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 Transient Response ⁴	+/-2% max +/-0.05%/ °C 100mVp-p max +/-0.5% max +/-0.5% max 10% of Full Load Current Limit Protection Automatic 100uS max
Input Specifications	Input Voltage Range Input Filter Protection	+/-10% max 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 Switching Frequency Isolation Capacitance MTBF ⁶ Weight Case Material Case Size Conducted Emissions Radiated Emissions	58% min 1000 VDC min 10 ⁹ ohms min 50 KHz min 80pF max 850,000 Hours 12.0g-14.4g Non-Conductive Plastic Or Five-Sided Shield Case 31.8mm*20.3mm*10.2mm 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 20% to 100%.
 - ⁴ 25% Step Load Change.
 - ⁵ For 10 seconds.
 - ⁶ MIL-HDBK-217F @25°C, Ground Benign.

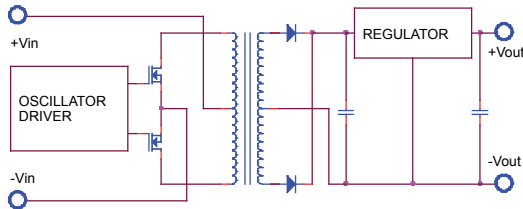
Selection Guide

MODEL NUMBER (M) ¹	INPUT VOLTAGE (VDC)	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (mA)	INPUT CURRENT(mA)		EFF (%)	ISOLATION (VDC)
				FULL LOAD	NO LOAD		
EP305-05S600	4.5-5.5	5	600	960	70	63	1000
EP305-09S330	4.5-5.5	9	330	950	70	63	1000
EP305-12S250	4.5-5.5	12	250	930	70	65	1000
EP305-15S200	4.5-5.5	15	200	940	70	64	1000
EP305-24S125	4.5-5.5	24	125	940	70	64	1000
EP305-05D300	4.5-5.5	+/-5	+/-300	970	70	62	1000
EP305-12D125	4.5-5.5	+/-12	+/-125	930	70	65	1000
EP305-15D100	4.5-5.5	+/-15	+/-100	940	70	64	1000
EP312-05S600	10.8-13.2	5	600	410	30	61	1000
EP312-09S330	10.8-13.2	9	330	400	30	63	1000
EP312-12S250	10.8-13.2	12	250	380	30	66	1000
EP312-15S200	10.8-13.2	15	200	360	30	69	1000
EP312-24S125	10.8-13.2	24	125	360	30	69	1000
EP312-05D300	10.8-13.2	+/-5	+/-300	420	30	60	1000
EP312-12D125	10.8-13.2	+/-12	+/-125	390	30	64	1000
EP312-15D100	10.8-13.2	+/-15	+/-100	360	30	69	1000
EP324-05S600	21.6-26.4	5	600	200	15	63	1000
EP324-09S330	21.6-26.4	9	330	190	15	66	1000
EP324-12S250	21.6-26.4	12	250	180	15	69	1000
EP324-15S200	21.6-26.4	15	200	180	15	69	1000
EP324-24S125	21.6-26.4	24	125	180	15	69	1000
EP324-05D300	21.6-26.4	+/-5	+/-300	210	15	60	1000
EP324-12D125	21.6-26.4	+/-12	+/-125	194	26	64	1000
EP324-15D100	21.6-26.4	+/-15	+/-100	180	15	69	1000
EP348-05S600	43.2-52.8	5	600	100	10	63	1000
EP348-09S330	43.2-52.8	9	330	95	10	66	1000
EP348-12S250	43.2-52.8	12	250	90	10	69	1000
EP348-15S200	43.2-52.8	15	200	90	10	69	1000
EP348-05D300	43.2-52.8	+/-5	+/-300	100	10	63	1000
EP348-12D125	43.2-52.8	+/-12	+/-125	90	10	69	1000
EP348-15D100	43.2-52.8	+/-15	+/-100	90	10	69	1000

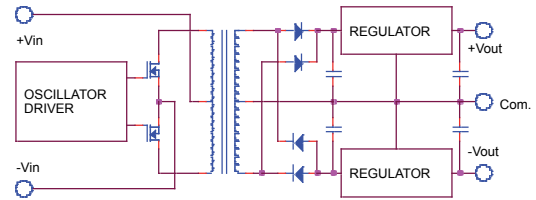
Footnotes: 1 EP3*-**** ----- Non-Conductive Plastic EP3*-****M ----- Five -sided shield case

Simplified Schematic

Single Output

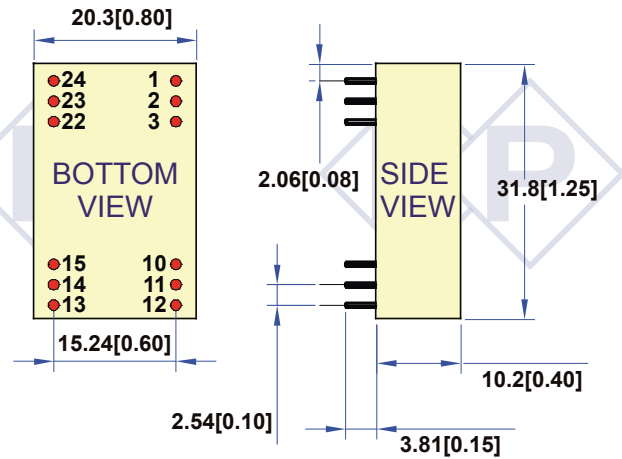


Dual Output



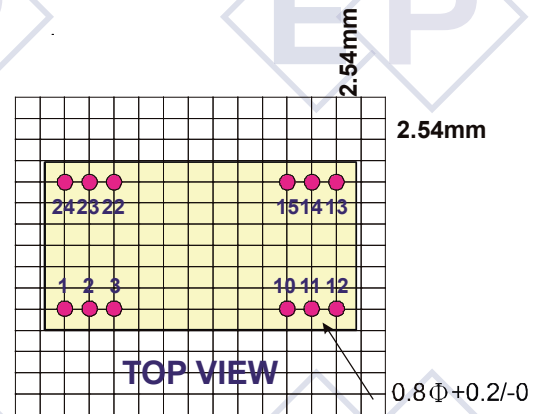
Mechanical Dimensions

PIN	SINGLE	DUAL
1 & 24	+Vin	+Vin
2 & 23	NC	-Vout
3 & 22	NC	Common
10 & 15	-Vout	Common
11 & 14	+Vout	+Vout
12 & 13	-Vin	-Vin

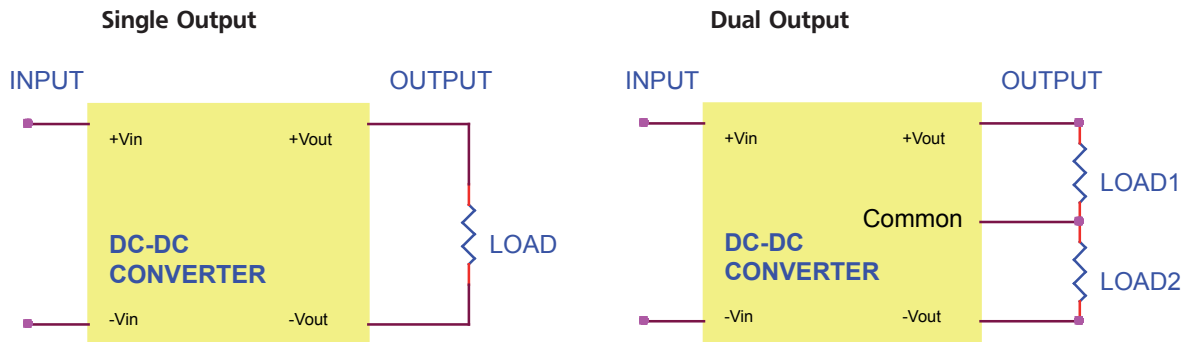


All dimensions are in mm[inchs]

Recommended Footprint Details

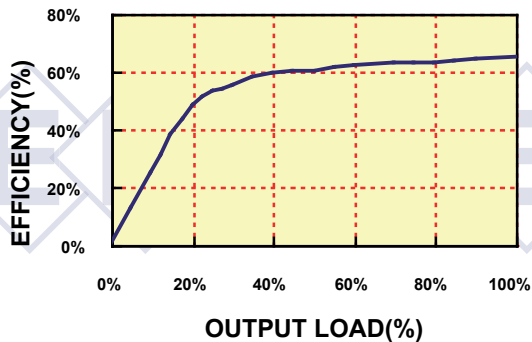


Typical Applications

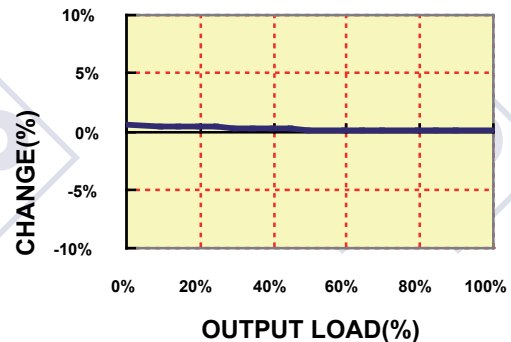


Typical Performance Curves

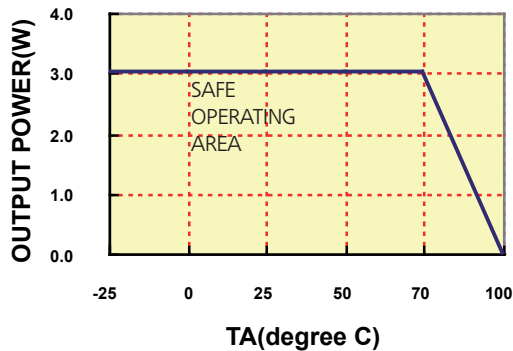
Output vs Efficiency



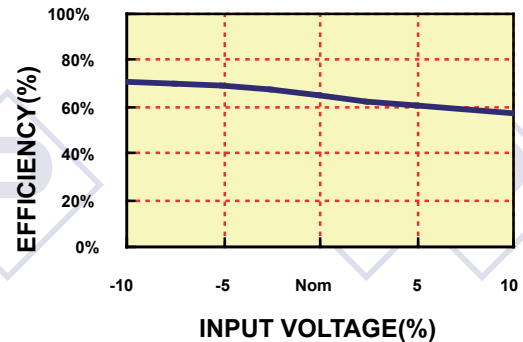
Output Load vs Output Voltage



Temperature Derating



Input Voltage vs Efficiency



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

EP300 SERIES APPLICATION NOTES

External Capacitance Requirements:

No external capacitance is required for operation of the EP300 series.

To meet the reflected ripple requirements of the converter, an input impedance of less than 0.5 ohm from DC to 100KHz 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 220uF.

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.