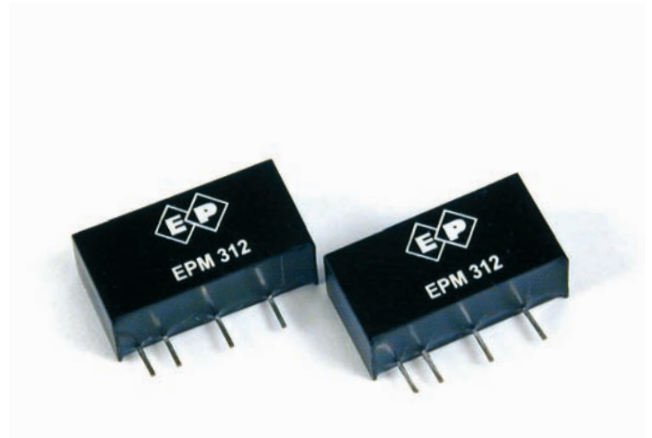


Features:

- 1500 - 3000VDC Isolation
- Efficiency Up To 85%
- Internal Smd Technology
- Low Cost
- No Heatsink Required
- Up to 2W Unregulated Output Power
- Single In Line Package
- 100% Burned In
- MTBF > 1.800.000 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	+/-2% max +/-0.05%/ °C 100mVp-p max +/-1.2% max +/-8% max 10% of Full Load Momentary
Input Specifications	Input Voltage Range Input Filter Protection	+/-10% max Capacitor Type Fuse Recommended
Environmental Specifications	Operating Temperature Storage Temperature Humidity Cooling	-40 °C to +71 °C -55 °C to +125 °C 95% max Free-Air Convection
General Specifications	Efficiency Isolation Voltage ⁴ Isolation Resistance Switching Frequency Isolation Capacitance MTBF ⁵ Weight Case Material Case Size Conducted Emissions Radiated Emissions	70%-85% 1500 VDC min C-Models 3000 VDC min D-Models 10 ⁹ ohms min 100 KHz min 80pF max 1.800.000 Hours 2.3g Typ Non-Conductive Plastic 19.6mm*7.1mm*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.

³ Load Regulation is for output load current change from 20% to 100%.

⁵ MIL-HDBK-217F @25°C , Ground Benign.

² Line Regulation is for a 1.0% change in input Voltage.

⁴ 1500 VDC for 10 sec., 3000 VDC for 3 sec.

Selection Guide 2W Output C-Model

MODEL NUMBER	INPUT VOLTAGE (VDC)	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (mA)	INPUT ⁵ CURRENT(mA)		EFF (%) ⁶	ISOLATION (VDC)	PACKAGE
				FULL LOAD	NO LOAD			
EPM 325	3.3	5	400	782	65	78	1500	C
EPM 326	3.3	24	84	782	65	78	1500	C
EPM 327	3.3	+/-15	+/-67	740	65	82	1500	C
EPM 301	5	3.3	500	452	60	73	1500	C
EPM 302	5	5	400	520	60	77	1500	C
EPM 303	5	9	222	506	60	79	1500	C
EPM 304	5	12	167	500	60	80	1500	C
EPM 305	5	15	133	488	60	82	1500	C
EPM 306	5	+/-5	+/-200	488	60	82	1500	C
EPM 307	5	+/-12	+/-84	500	60	80	1500	C
EPM 308	5	+/-15	+/-67	488	60	82	1500	C
EPM 328	5	+/-24	+/-42	504	60	79	1500	C
EPM 309	12	3.3	500	185	15	74	1500	C
EPM 310	12	5	400	214	15	78	1500	C
EPM 311	12	9	222	214	15	78	1500	C
EPM 312	12	12	167	200	15	83	1500	C
EPM 313	12	15	133	196	15	85	1500	C
EPM 314	12	+/-5	+/-200	214	15	78	1500	C
EPM 315	12	+/-12	+/-84	200	17	83	1500	C
EPM 316	12	+/-15	+/-67	196	15	85	1500	C
EPM 317	24	3.3	500	92	15	74	1500	C
EPM 318	24	5	400	107	15	78	1500	C
EPM 319	24	9	222	107	15	78	1500	C
EPM 320	24	12	167	104	15	80	1500	C
EPM 321	24	15	133	101	15	83	1500	C
EPM 322	24	+/-5	+/-200	107	15	78	1500	C
EPM 323	24	+/-12	+/-84	103	15	81	1500	C
EPM 324	24	+/-15	+/-67	103	15	81	1500	C

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

Footnotes: ⁵ Nominal Input Voltage
⁶ Nominal Input Voltage,full Load

Selection Guide 2W Output D-Model

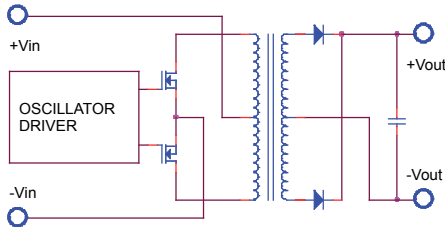
MODEL NUMBER	INPUT VOLTAGE (VDC)	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (mA)	INPUT ⁵ CURRENT(mA)		EFF (%) ⁶	ISOLATION (VDC)	PACKAGE
				FULL LOAD	NO LOAD			
EPM 401	5	3.3	500	452	60	73	3000	D
EPM 402	5	5	520	520	60	77	3000	D
EPM 403	5	9	222	510	60	78	3000	D
EPM 404	5	12	167	500	60	80	3000	D
EPM 405	5	15	133	492	60	81	3000	D
EPM 406	5	+/-5	+/-200	520	60	77	3000	D
EPM 426	5	+/-9	+/-111	512	60	78	3000	D
EPM 407	5	+/-12	+/-84	500	60	80	3000	D
EPM 408	5	+/-15	+/-67	488	60	82	3000	D
EPM 409	12	3.3	500	185	15	74	3000	D
EPM 410	12	5	400	214	15	79	3000	D
EPM 411	12	9	222	210	15	79	3000	D
EPM 412	12	12	167	205	15	81	3000	D
EPM 413	12	15	133	200	15	83	3000	D
EPM 414	12	+/-5	+/-200	214	15	78	3000	D
EPM 415	12	+/-12	+/-84	203	15	82	3000	D
EPM 416	12	+/-15	+/-67	200	15	83	3000	D
EPM 425	12	+/-18	+/-55	199	20	83	3000	D
EPM 417	24	3.3	500	92	15	74	3000	D
EPM 418	24	5	400	108	15	77	3000	D
EPM 419	24	9	222	108	15	77	3000	D
EPM 420	24	12	167	104	15	80	3000	D
EPM 421	24	15	133	102	15	82	3000	D
EPM 422	24	+/-5	+/-200	107	15	78	3000	D
EPM 423	24	+/-12	+/-84	103	15	81	3000	D
EPM 424	24	+/-15	+/-67	102	15	82	3000	D

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

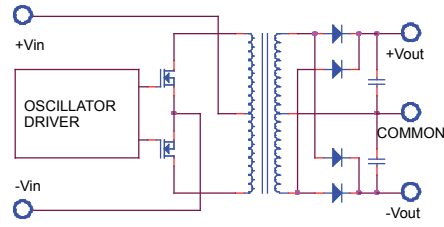
Footnotes: ⁵ Nominal Input Voltage
⁶ Nominal Input Voltage,full Load

Simplified Schematic

Single Output



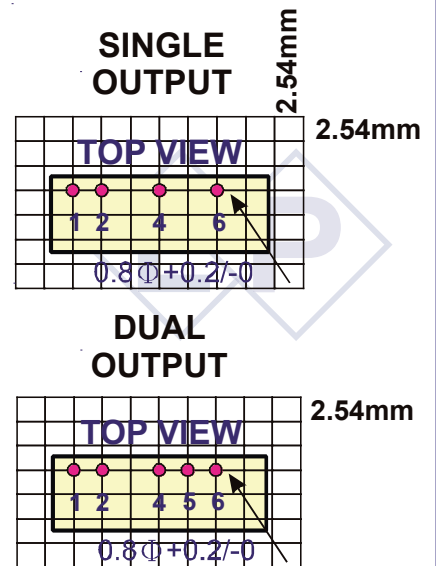
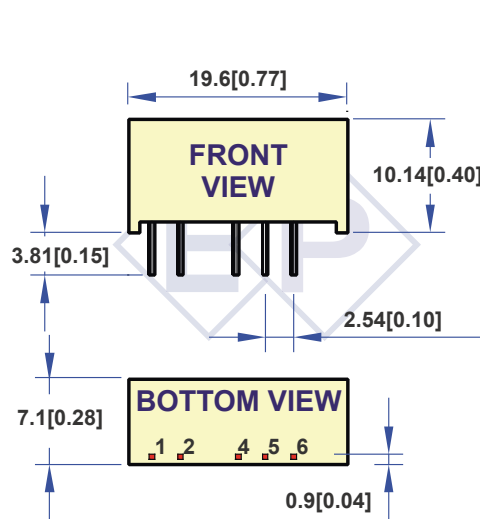
Dual Output



Mechanical Dimensions & Recommended Footprint Details

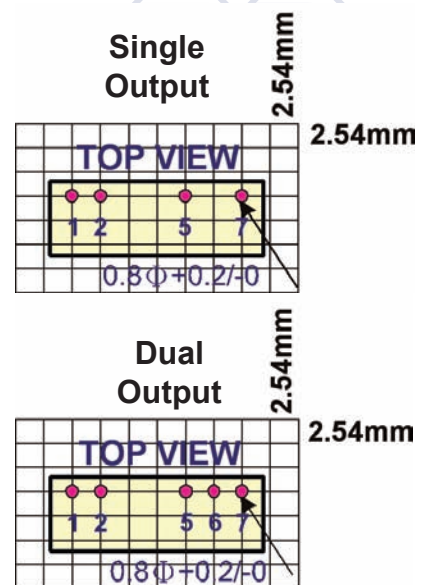
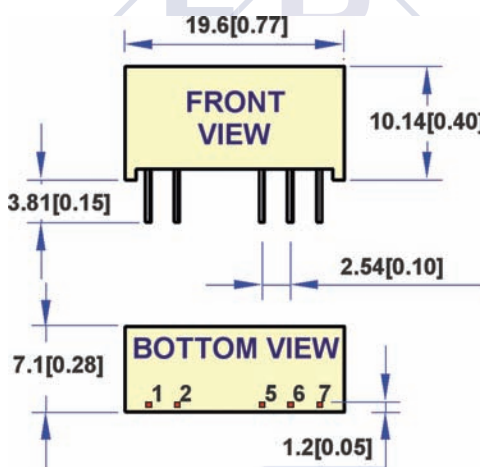
Package C

PIN	SINGLE	DUAL
1	+Vin	+Vin
2	-Vin	-Vin
4	-Vout	-Vout
5	NP	Common
6	+Vout	+Vout



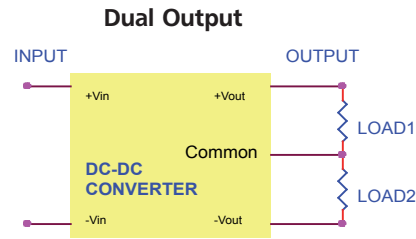
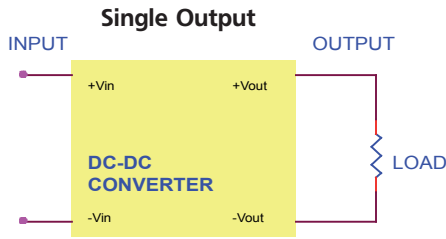
Package D

PIN	SINGLE	DUAL
1	+Vin	+Vin
2	-Vin	-Vin
5	-Vout	-Vout
6	NP	Common
7	+Vout	+Vout



Note: Pin Size is Tolerance 0.5 Ø ±0.05 mm, All Dimensions in mm (Inches), Tolerance .x or .xx = ±0.05 mm

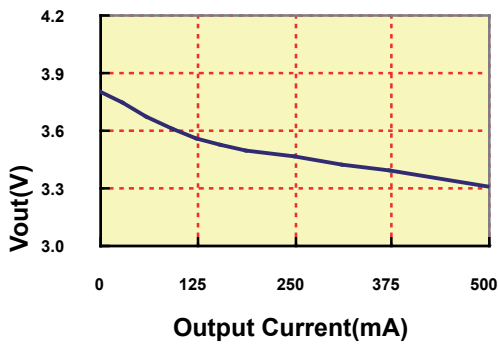
Typical Applications



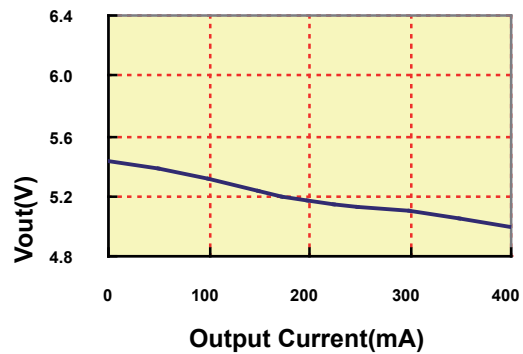
Typical Performance Curves

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

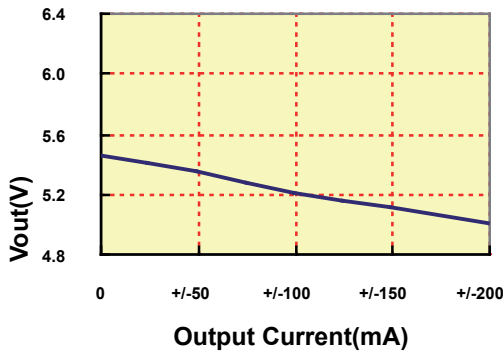
Vout vs Load (3,3Vout Models)



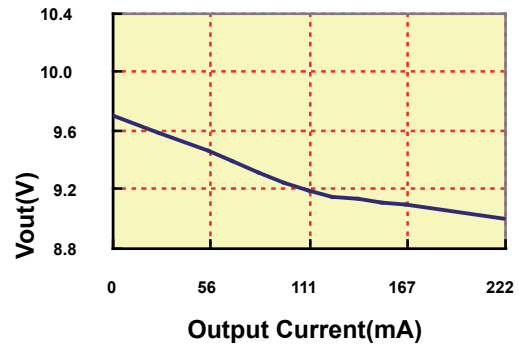
Vout vs Load (5Vout Models)



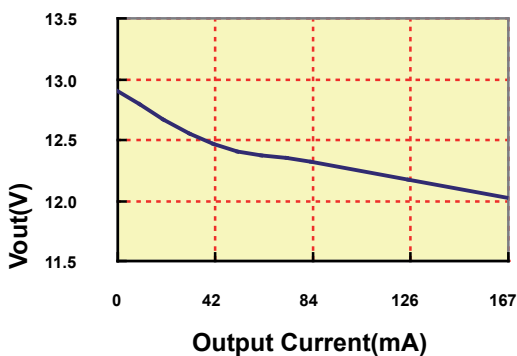
Vout vs Load (+/-5Vout Models)



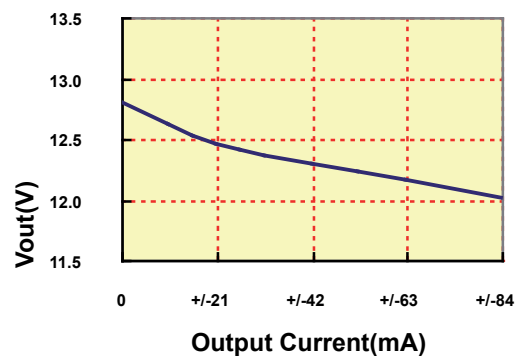
Vout vs Load (9Vout Models)



Vout vs Load (12Vout Models)



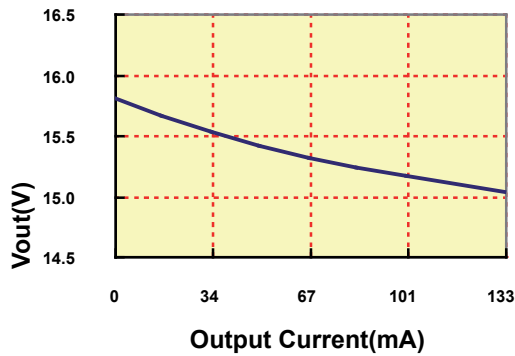
Vout vs Load (+/-12Vout Models)



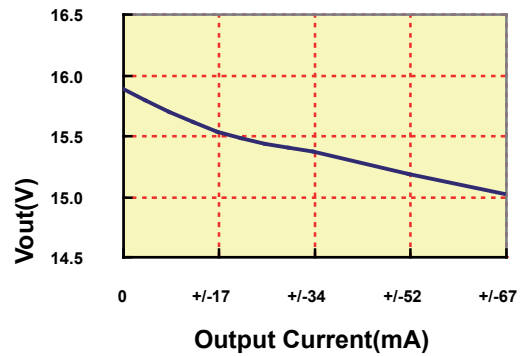
Typical Performance Curves

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

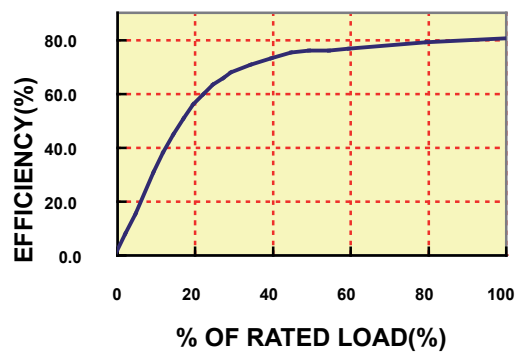
Vout vs Load (15Vout Models)



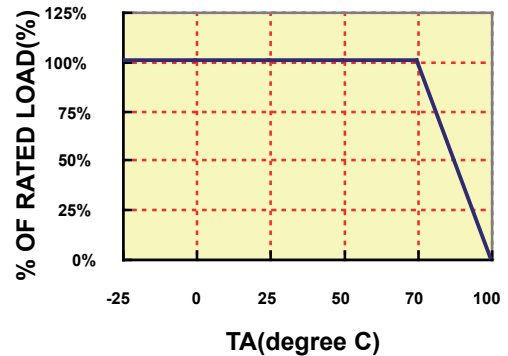
Vout vs Load (+/-15Vout Models)



Efficiency vs Load



Derating Curve



EPM 300-400 SERIES APPLICATION NOTES

External Capacitance Requirements:

Output filtering is required for operation. A minimum of 10uF is needed. Output capacitance may be increased for additional filtering, not to exceed 220uF.

To meet the reflected ripple requirements of the converter, an input impedance of less than 0.5ohm from DC to 250KHz is required.

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.