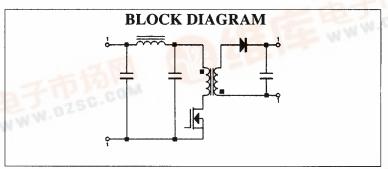




STANDARD DC/DC CONVERTERS WITH SINGLE OR DUAL REGULATED OUTPUTS. AN INTERNAL [] (Pi) INPUT FILTER IS STANDARD AND IS USED TO REDUCE REFLECTED RIPPLE CURRENT. ALL MODELS FEATURE A NICKEL-PLATED COPPER CASE WITH SIX-SIDED SHIELDING.



1.00" x 2.00" x 0.40" (25.40) x (50.80) x (10.16)mm

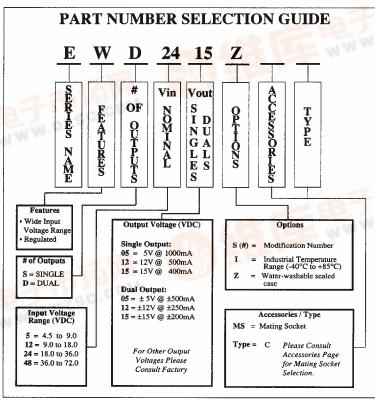


FEATURES

- · Industry Standard Pin Out
- · Six-Sided Shielding
- 500 VDC I/O Isolation
- · Continuous Short Circuit Protection
- Input ∏ (Pi) Filter

APPLICATIONS

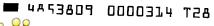
- · Telecommunication
- · Data Processing Equipment
- · Industrial Equipment
- Medical Equipment
- · A/D and D/A Converters
- Distributed Power Systems



INTERNATIONAL POWER DEVICES, INC.

20 Linden Street, Boston, MA | 02134 + Phone: (617)782-3331 + Fax: (617)782-7416









PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS	NOTES:
GENERAL: Switching Frequency	170	200	240	KHz		
Isolation Voltage	170	200	240	KIIZ		1. No derating required
Input to Output	500			VDC		up to a maximum case
Input to Case				VDC	Note 5	temperature of 85°C.
Output to Case]	VDC	Note 5	See efficiency and
Isolation Resistance	10 ⁹			01		thermal impedence
Input to Output Short Circuit Protection	10			Ohms	Note 3	data provided. Internal
ENVIRONMENTAL:					11016 3	Power Dissipation
Operating Temperature	-25		85	°C	Note 1	= Pout* (1-Eff) / Eff.
Storage Temperature	-40		125	°C	Ambient	
Operating Humidity			95%		Non-Condensing	2. Provided for input
Storage Humidity INPUT:			95%		Non-Condensing	fuse selection.
Input Voltage						
5 Vin	4.50	5.00	9.00	VDC		3. Continuous Short Cir-
12 Vin	9.00	12.00	18.00	VDC		cuit Protection is pro-
24 Vin	18.00	24.00	36.00	VDC		vided. For dual output
48 Vin	36.00	48.00	72.00	VDC		units the short circuit
Input Current			1.00	A	NT-4- 0	current on each indi-
5 Vin 12 Vin			1.00 0.80	Amps Amps	Note 2 Note 2	vidual output is
24 Vin			0.40	Amps	Note 2	equivalent to the short
48 Vin			0.20	Amps	Note 2	circuit current for a
Input Ripple Current			20%	Iin max		
Reverse Input Current			100%	Iin max		single output unit.
OUTPUT:						
Singles: Voltage Accuracy			±1.00%	Vout	Full Load	4. Long term continuous
Load Regulation			±1.00%		10% to 100%	operation in this mode
Line Regulation			±1.00%		LL to HL	is not recommended.
Current Limit			130%	Iout	Note 3, Note 4	Converter will auto-re-
Duals:						start once short has
Voltage Accuracy			11.000	37	D-11 T 4	been removed.
+Vout -Vout			±1.00% ±1.00%		Full Load Full Load	
Load Regulation			11.00%	Vout	Tuli Load	5. For 48V input models,
+Vout			±1.00%	Vout	10% to 100%	the case is connected
-Vout			±1.00%	Vout	10% to 100%	to +Vin. For all other
Line Regulation			±1.00%		LL to HL	input voltages, the case
Current Limit			130%		Note 3, Note 4	is tied to either -Vout
Temp. Coefficient Voltage Stability			±0.02% ±0.05%			(Singles) or the Out-
Ripple and Noise			1.00%	,	p-p, 20 MHz BW	put Common (Duals).
Transient Response			1.00%		F P, ==	r == =================================
25% Step						
Load change			500	μS	1% Error Band	

^{*} All specifications typical at $+25^{\circ}$ C Nominal Line and Full Load unless otherwise noted. * Specifications subject to change without notice.



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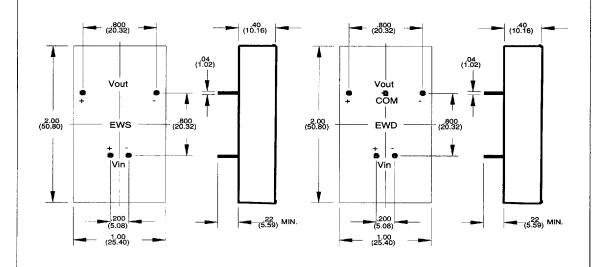




Notes:	

BOTTOM VIEW

Mechanical tolerances are ± 0.04"



Specifications are subject to change without notice.

All Dimensions are in inches (MM)



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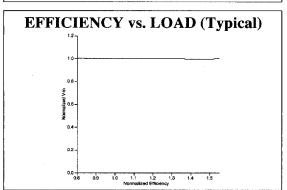
PIN CONNECTIONS

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

THERMAL IMPEDANCE

	Typical R ₀ CA
NATURAL CONVECTION	22°C/W
100 LFPM	18°C/W
200 LFPM	11°C/W
300 LFPM	8.9°C/W
400 LFPM	6.8°C/W

Thermal Impedance data depends upon many environmental factors and may vary from application to application. The numbers provided are intended as a guide. The exact thermal performance should be validated in each application.



Notes:			



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