

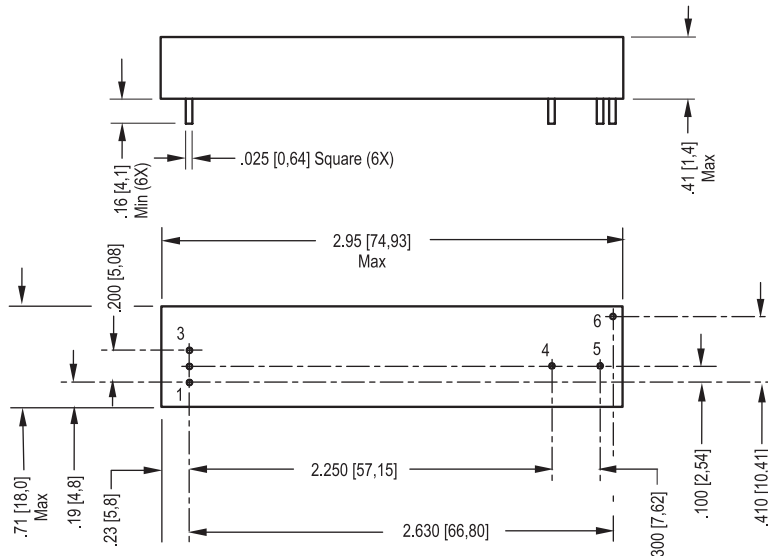
D Series



12 Volt Input Dc to Ac Inverter

D12PE60

The D12PE60 is a generic dc to ac inverter designed to generate 6 mArms into a 350 - 550 volt load (CCFL) from a nominal 12 volt dc source.



- | | |
|---------------|-------------|
| 1. -Vin | 4. ACout |
| 2. +Vin | 5. ACreturn |
| 3. Enable/PWM | 6. N/C |



This view is from the top looking through pcb. It depicts layout for inverter to plug into.

PHYSICAL SPECIFICATIONS

Size: .71" x 2.95" x .41"
 Weight: 25 grams
 Component Surface Temperature: -20° to +80°C
 Storage Temperature: -40° to +85°C
 Humidity: 95% RH (Non-Condensing) Max

Characteristics	Value	Units	Note(s)
Input Voltage	10.8 - 13.2	Vdc	
Input Current	0.30 typ	Adc	$R_L = 75 \text{ kOhms}$
Minimum No Load Output Voltage	1400	Vrms	$V_{in} = 12.00 \text{ Vdc}$
Frequency	40 typ	kHz	$V_{in} = 12.00 \text{ Vdc}$
Output Current	6.0	mArms	$R_L = 75 \text{ kOhms}$
Efficiency	75	%	Typical

The maximum input current (which indicates an overload condition) is 1.0 Adc maximum.

FEATURES

Low Profile
 PCB Mountable
 High efficiency
 Encapsulated

Endicott Research Group, Inc.

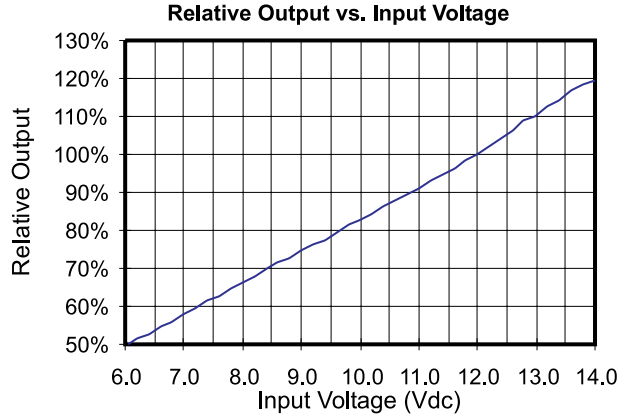
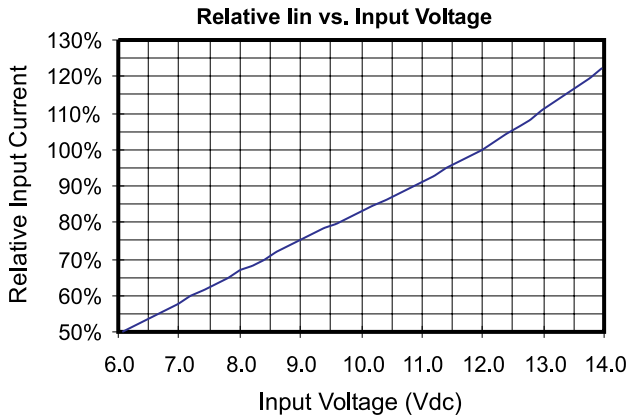
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<http://www.ergpower.com>

Inverters specifically designed to match most popular LCD modules are also available. Contact your authorized distributor or ERG direct.

Connection and Application Information

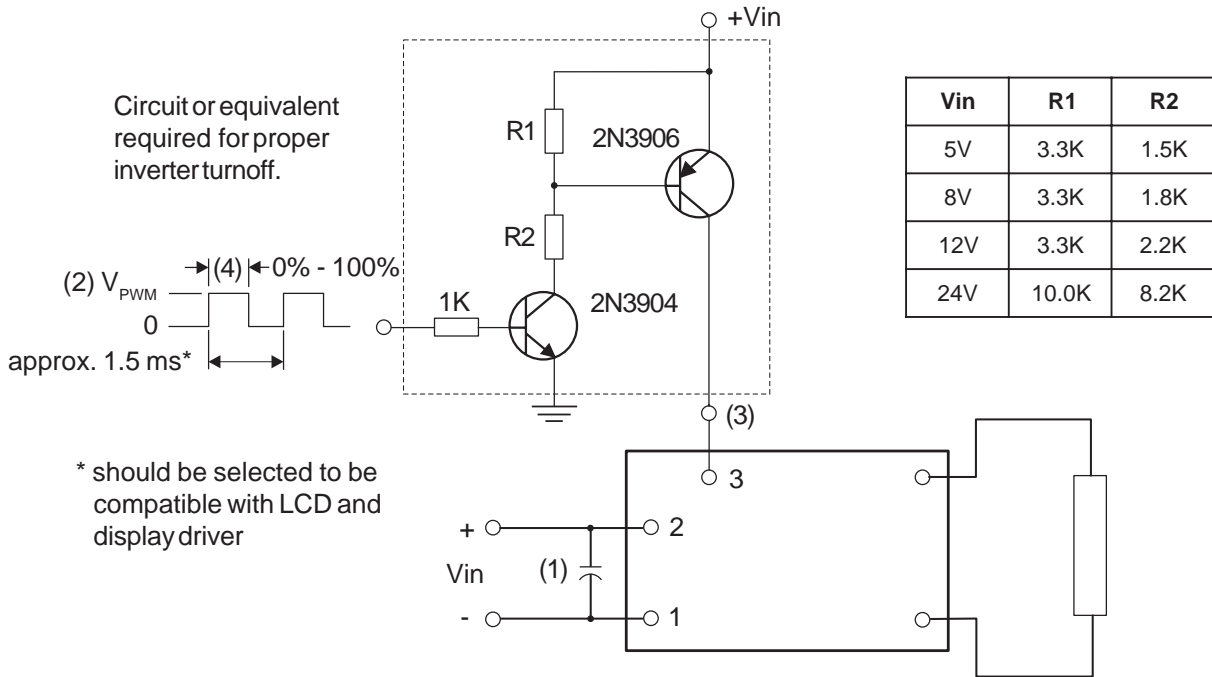
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PWM Dimming

Required User Enable/Disable Interface Circuit



- (1) Low ESR type input by-pass capacitor (22 uf - 100 uf) may be required to reduce reflected ripple.
- (2) V_{PWM} from 2.4V to less than or equal to 13.2V.
- (3) Full brightness without PWM control requires that pin 3 be tied to Vin(+). Pin 3 must be at 0V to turn off.
- (4) Duty Cycle 0% - 100%.



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Specifications are subject to change without notice. 09/05/07

