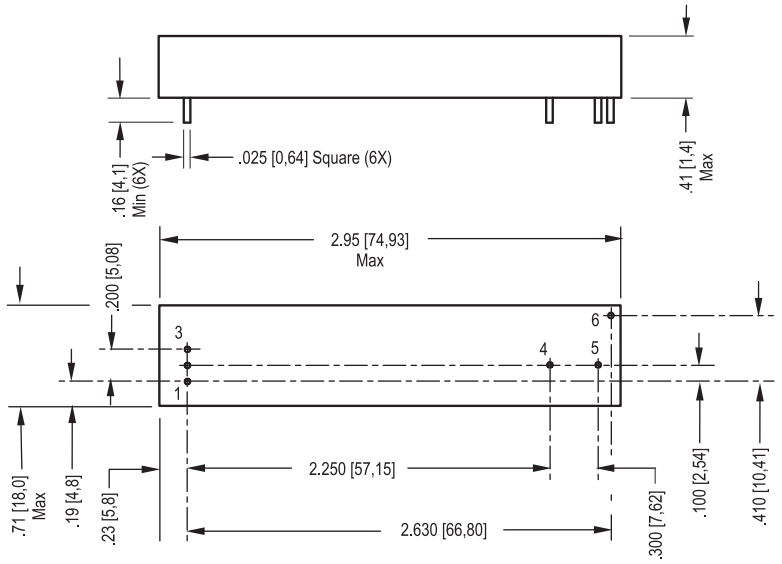
D Series

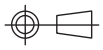
12 Volt Input Dc to Ac Inverter

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. GND	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 - 12.6	Vdc	
Input Current	0.30 typ	Adc	R_L = 75 kOhms
Minimum No Load Output Voltage	1400	Vrms	Vin = 12.00 Vdc
Frequency	40 typ	kHz	Vin = 12.00 Vdc
Output Current	6.0	mArms	R_L = 75 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.
2601 Wayne St., Endicott, NY 13760
607-754-9187 Fax 607-754-9255
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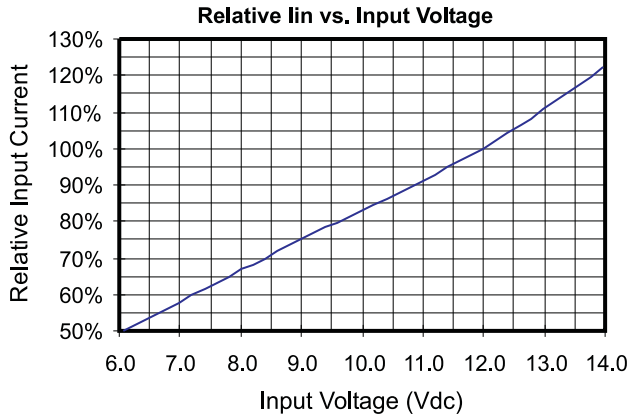
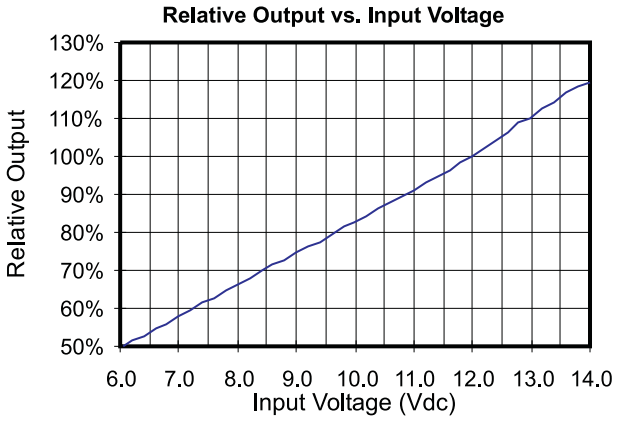
Inverters specifically designed to match most popular LCD modules are also available. Contact your authorized distributor or ERG direct.

Connection and Application Information

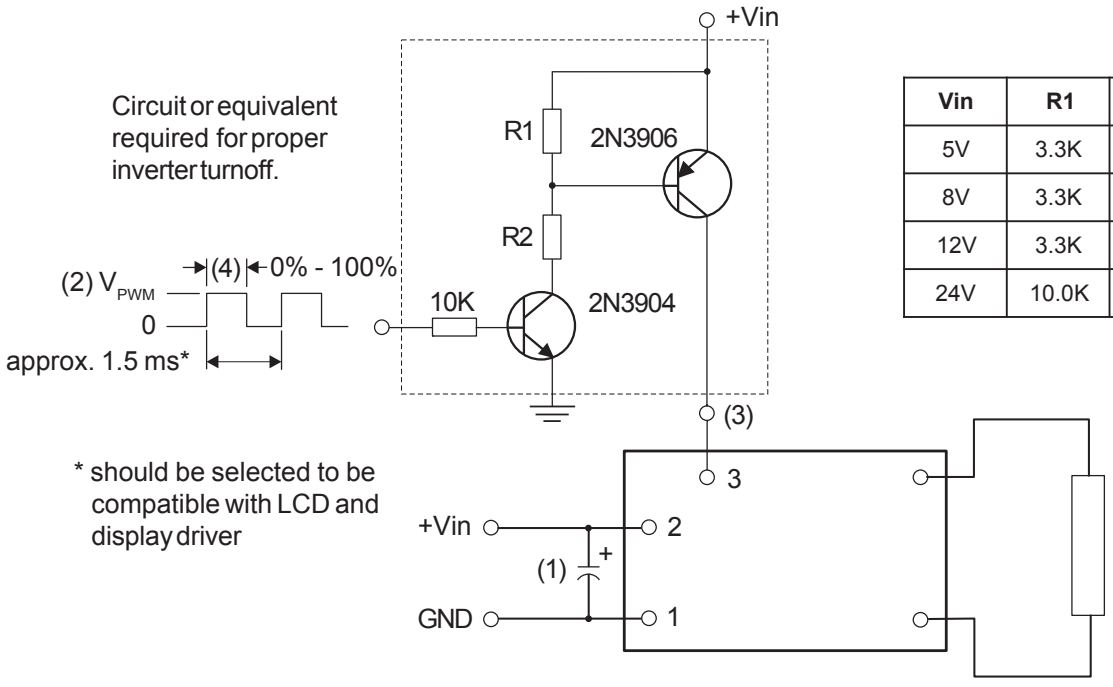
12 Volt Input Dc to Ac Inverter — D12PE60





PWM Dimming

Required User Enable/Disable Interface Circuit



Vin	R1	R2
5V	3.3K	1.5K
8V	3.3K	1.8K
12V	3.3K	2.2K
24V	10.0K	8.2K

(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 +Vin.
(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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