

# R262256

FIGURE 4  
TYPICAL CONNECTION TO BL-C061 UTILIZING INTERNAL PWM GENERATOR

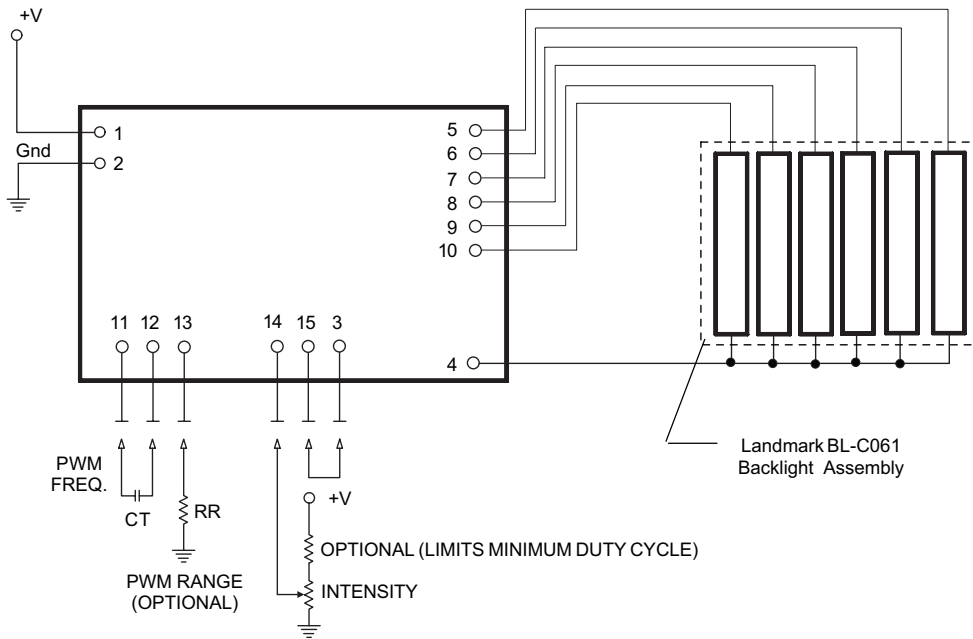
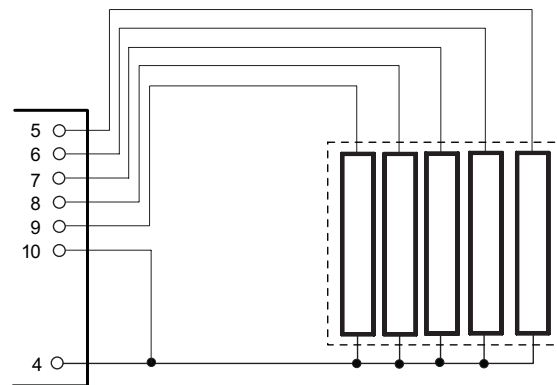


FIGURE 5 - TYPICAL CONNECTION WHEN POWERING BL-C054A



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# R262256

## Specifications and Applications Information

6/8/99

Preliminary

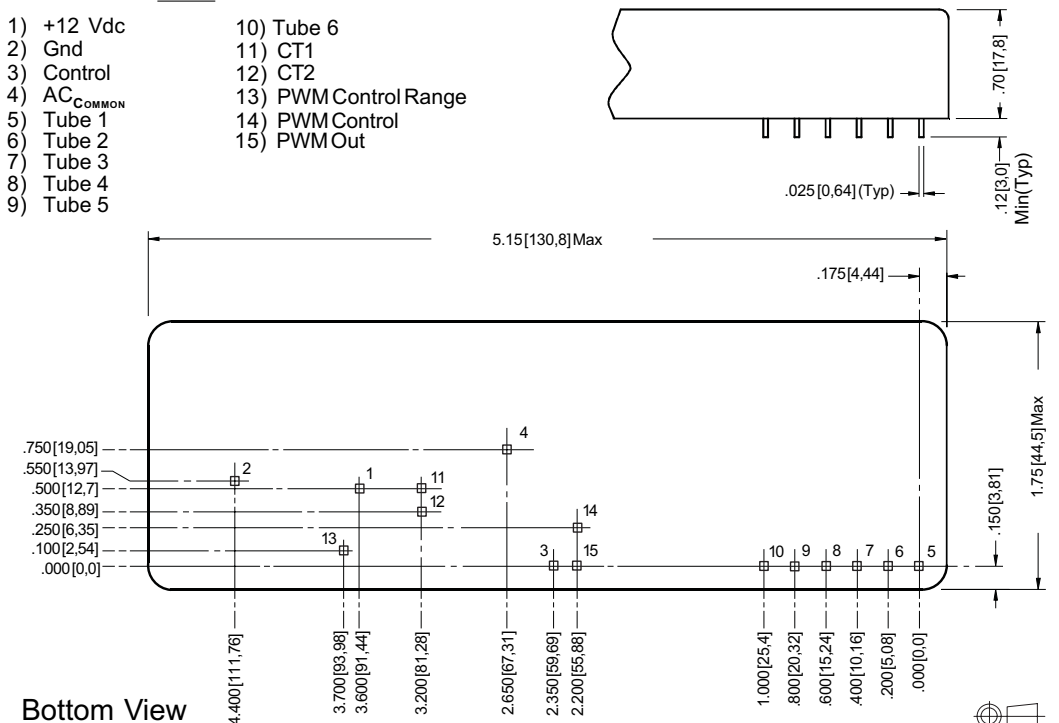
5 or 6 Tube  
DC to AC Inverter

The ERG R262256 dc to ac inverter is specifically designed to power the Landmark BL-C054A 5 tube or BL-C061 6 tube LCD backlight module. It provides for flicker-free dimming from either an analog or digital control input.

The R262256's high power density, dimming control, and encapsulated package make it the ideal power source for applications where high efficiency and reliability in lighting multiple tube backlights are critical.

### Pinout

- |                         |                       |
|-------------------------|-----------------------|
| 1) +12 Vdc              | 10) Tube 6            |
| 2) Gnd                  | 11) CT1               |
| 3) Control              | 12) CT2               |
| 4) AC <sub>COMMON</sub> | 13) PWM Control Range |
| 5) Tube 1               | 14) PWM Control       |
| 6) Tube 2               | 15) PWM Out           |
| 7) Tube 3               |                       |
| 8) Tube 4               |                       |
| 9) Tube 5               |                       |



Bottom View



Typical Performance Curves  
(No Dimming)

FIGURE 6 - TUBE FREQUENCY VS. INPUT VOLTAGE

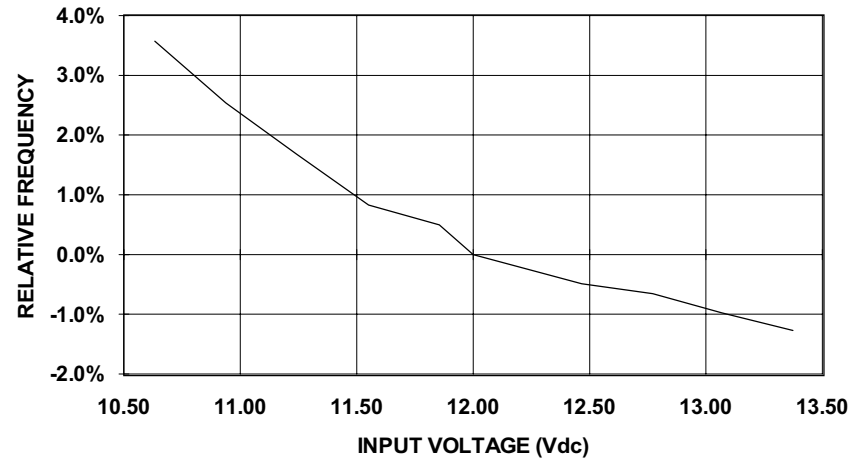
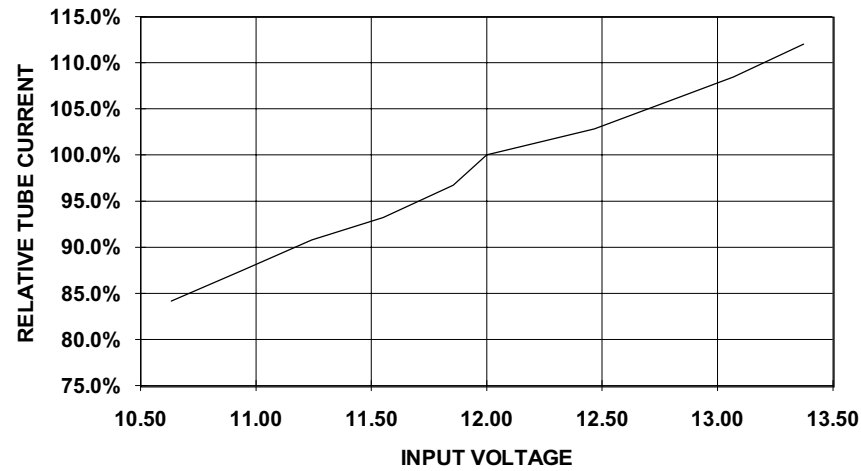


FIGURE 7 - TUBE CURRENT vs. INPUT VOLTAGE



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FIGURE 1 - ELECTRICAL CHARACTERISTICS

Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	V <sub>in</sub>	-0.3 to +15	Vdc
Operating Temperature	T <sub>o</sub>	0 to +70	°C
Storage Temperature	T <sub>stg</sub>	-40 to +85	°C

Recommended Operating Conditions

Rating	Symbol	Value	Units
Input Voltage	V <sub>in</sub>	+10.8 to 13.2	Vdc

Electrical Characteristics

Unless otherwise noted V<sub>in</sub> = 12.00 Volts dc and T<sub>a</sub> = 25°C.

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	I <sub>in</sub>	-	2.0	-	Adc
Operating Frequency	F <sub>o</sub>	-	35	-	KHz
Tube Starting Voltage *	V <sub>start</sub>	1160	-	-	Vrms
Inverter Efficiency	η	-	88	-	%
Tube Operating Current (per tube)	I <sub>o</sub>	-	6.5	-	marms
Tube Sustaining Voltage (per tube) **	V <sub>s</sub>	-	385	-	Vrms
CCFT Control Level (Pin 3) CCFT Output Off CCFT Output On		2.2		1.5	Vdc
CCFT Control Pin Sink Current			1.1	1.4	madc
PWM Frequency Range		50		1000	Hz
PWM Frequency ***			180		Hz
PWM Control Voltage (Pin 18)		0		+V <sub>in</sub> -2	Vdc
Input Bias Current (Pin 18)			45	250	nAdc
PWM Control Range Program Resistance (Pin 17)		1			Kohm
PWM Output Level (Pin 19) Low High		10	5 11	50	mVdc Vdc

INVERTER SECTION

SHUT-DOWN SECTION

INTERNAL PWM GENERATOR

\* Valid over entire operating temp. range

\*\* Measured, not guaranteed Specifications subject to change without notice



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