

8mA23482CF

Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	V _{in}	-0.3 to +5.5	Vdc
Storage Temperature	T _{stg}	-40 to +85	°C

Operating Characteristics

With a load simulating the referenced display and lamp warm-up of 5 minutes. Unless otherwise noted Vin = 5.00 Volts dc and Ta = 25° C.

Characteristic	Symbol	Min	Тур	Мах	Units
Input Voltage	V _{in}	+4.50	+5.00	+5.25	Vdc
Component Surface Temperature ^(note 1)	Τ _s	-20	-	+80	°C
Input Current (note 2)	I _{in}	-	1.24	1.40	Adc
Operating Frequency	Fo	38	43	48	kHz
Minimum Output Voltage (note 3)	V _{out} (min)	1400	-	-	Vrms
Efficiency	h	-	82	-	%
Output Current (per lamp)	I _{out}	-	5.0	-	mArms
Output Voltage	V _{out}	-	510	-	Vrms
Enable Pin Input Current Requirement ^(note 4)	I _{Enable}	-	15	-	mAdc

Specifications subject to change without notice.

- (Note 1) Surface temperature must not exceed 80 degrees C; thermal management actions may be required.
- (Note 2) Input current in excess of maximum may indicate a load/inverter mismatch condition, which can result in reduced reliability. Please contact ERG technical support.
- (Note 3) Provided data is not tested but guaranteed by design.
- (Note 4) Required User Enable/Disable Interface Circuit is shown on page 3.

Application Notes:

- 1) The minimum distance from high voltage areas of the inverter to any conductive material should be .12 inches per kilovolt of starting voltage.
- 2) Mounting hardware to be non-conductive.
- 3) Open framed inverters should not be used in applications at altitudes over 10,000 feet.
- 4) Contact ERG for possible exceptions.



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PWM Dimming



(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 5 be tied to +Vin. Pin 5 must be at 0V to turn off.
- (4) Duty Cycle 5% 100%.



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