

Endicott Research Group, Inc.

2601 Wayne St., Endicott, NY 13760 607-754-9187 Fax 607-754-9255 http://www.ergpower.com

DMC42626

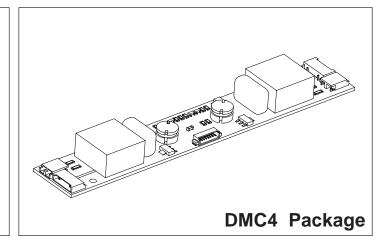
Specifications and Applications Information

05/02/04 Preliminary

Four Tube
DC to AC Inverter

The ERG DMC42626 (DMC4 Series) DC to AC inverter features onboard connectors and can be easily dimmed using an external pulsewidth modulated control signal. This unit is less than 13mm in height and the two mounting holes makes installation very straight forward.

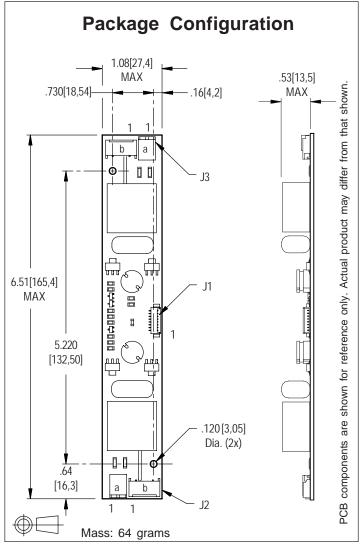
Powered by a regulated 12 volt DC source the DMC42626 is specially designed to power the Samsung LTM170E4-L01 Enhanced backlights.



Product Features

- ✓ Small Package Size, less than 13mm in height.
- ✓ High Efficiency
- ✓ Made in U.S.A.

Connectors					
J1 - (Input) MOLEX	J2a,J3a - (Outputs) JST SM02B-BHSS-1-TB				
532-61-0890	J2a,J3a-1 AC _{out} J2a,J3a-2 AC _{out}				
J1-1 V _{in} J1-2 V _{in}	J2b,J3b - (Outputs) JST SM02B-BHSS-1-TB				
J1-3 GND J1-4 GND J1-5 Enable					
J1-6 N/C J1-7 N/C J1-8 N/C	J2b,J3b-1 AC _{out} J2b,J3b-2 AC _{out}				





Absolute Maximum Ratings (Note 1)

Rating	Symbol	Value	Units
Input Voltage	V _{in}	-0.3 to +13.2	Vdc
Enable	V _{Enable}	-0.3 to +13.2	Vdc
Operating Temperature	T _a	-0 to +85	°C
Storage Temperature	T _s	-40 to +85	°C

Recommended Operating Conditions

Rating	Symbol	Value	Units
Input Voltage	V _{in}	+10.8 to 12.6	Vdc
Operating Temperature (Note 2)	T _a	0 to +50	°C

Electrical Characteristics

Unless otherwise noted Vin = 12.00 Volts dc and Ta = 25°C

Characteristic	Symbol	Min	Тур	Max	Units	
Input Current	I _{in}	-	1.82	2.1	A _{DC}	
Input Ripple Current	l rip	-	-	-	mA _{pk-pk}	
Operating Frequency	Fo	42	47	52	KHz	
Efficiency	h	-	85	-	%	
Output Voltage (no load) (Note 3)	V _{start}	1450	-	-	V	
Output Voltage (simulated load)	V _{out}	-	690	-	V	
Output Current (per tube)	l out	-	6.7	-	mArms	
Enable (pin J1-5)						
Turn-off Threshold	V thoff	-	-	0.7	V	
Turn-On Threshold	V thon	2.0	-	-	V	

⁽Note 1) Reliable and predictable operation of the device are not guaranteed with applied stresses at or beyond those listed in "Absolute Maximum Ratings". Operation at these limits may reduce device reliability and is therefore not recommended. Please refer to "Recommended Operating Conditions" for reliable operation of the device.

- (Note 2) Operation above 50°C is possible if airflow is provided.
- (Note 3) Provided data is not tested but guaranteed by design.

Input voltage specification modified for clarity on 5/2004.