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Premium Optical Lamination of Clear and  
Matte Anti-Reflection Film  
Optical Bonding AR and AG Glass, Touch  
Panels, Optical Filters and Shields  
US Value Add, Warranty, and Support  
Polarizer and Backlight Repair  
Display Optimization and Contract  
Assembly  
Consulting and Design Guidance



# LITEMAX LID06A01

## Inverter

(1st Edition 11/13 2007 )

All information is subject to change without notice.

Approved by	Checked by	Prepared by
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## General

The DC to AC inverter is designed as a low noise high frequency high efficiency as a low profile and light weight switching power supply.

## 1. LED (Application)

This specification is applied to LED converter unit for 6 " 68pcs LED backlight

## 2. Operating Characteristics

Item	Symbol	Conditions	MIN.	TYP.	MAX.	Unit	Remark
Input Voltage	Vin		10.0	12.0	14.0	V	
Input Current (Low Brightness)	IinL	VIN=12V,Vadj=5V	0.0	-----	-----	mA	
Input Current (High Brightness)	IinH	VIN=12V,Vadj=0V	0.7	0.9	1.2	A	
LED Current (Low Brightness)	IoutL	VIN=12V,Vadj=5V	0.0	-----	-----	Arms	
LED Current (High Brightness)	IoutH	VIN=12V,Vadj=0V	1215	1350	1480	mA	
Working Frequency	Freq	VIN=12V,Vadj=0V	120	125	130	KHZ	
Brightness Control	Vadj	Connection of Voltage	0.8	-----	4.5	V	
ON/OFF Control	Von/off	Normal Operation	2	-----	5	V	
Output Voltage	Vout	VIN=12V,Vadj=0V	6.0	6.5	7.0	V	
Efficiency	$\eta$	VIN=12V,Vadj=0V	80	-----	-----	%	

## 3. Environment

Operation Temperature	-20 ~ 70°C
Operation Humidity	90% Max. RH
Storage Temperature	-40 ~ 85°C
Storage Humidity	90% Max. RH

#### 4. Connector Socket

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##### 4-1. Input Connector :J1 (JST B2B-PH-K-S or Compatible)

PIN No	Symbol	Description
1	Vin	DC+12V
2	Vin	DC+12V
3	Vin	DC+12V
4	GND	Ground
5	GND	Ground
6	GND	Ground
7	Brightness	Brightness Control 5V~0V
8	Control	ON/OFF Control 0.8V(OFF) 2~5V(ON)

##### 4-2 .Output Connector :J2,J3(JST S2B-EH or Compatible)

PIN NO	Symbol	Description
1	Output	LED High Voltage( + )
2	Output	LED Low Voltage ( - )

## 5. Mechanical Characteristics

Dimension: 100mm\*35mm\*15mm

### INPUT CONNECTOR

LJ1:

- PIN1:VIN
- PIN2:VIN
- PIN3:VIN
- PIN4:GND
- PIN5:GND
- PIN6:GND
- PIN7:BRIGHTNESS
- PIN8:ON/OFF

