



LITEMAX LI1220

Inverter

(1st Edition 09/27/2007)

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.

Feature

Applicable TO 12 Tube; PWM Type Mode
Constant Current output
Possesses open load protection
No load –output auto stop
Meet TCO 99

LCD Application

| | | | Remark | | | |
|----------|-----------|-------|--------|--|--|--|
| LCD SIZE | Lcm Model | Brand | | | | |
| 20" | | | | | | |

JP: Lamp Current & Frequency Adjust

Operating Conditions

| Item | Symbol | Conditions | MIN | MAX | Unit | Remark |
|-----------------------|--------|-------------|-----|-----|------|--------|
| Input Voltage | Vin | | 10 | 14- | V | |
| Operating Temperature | Top | Ha=90%RH | 0 | 65 | °C | |
| Storage Temperature | Tstg | Ha=95%RH | -10 | 80 | °C | |
| Operating Humidity | Hop | Ta=0~55 °C | 20 | 90 | %RH | |
| Storage Humidity | Hstg | Ta=20~80 °C | - | 95 | %RH | |

Operating Characteristics

| Item | Symbol | Conditions | MIN. | TYP. | MAX. | Unit | Remark |
|------------------------------------|--------|--------------------------------------|------|------|-------|-----------|-----------|
| Input Voltage | Vin | GND=0V | 11 | 12 | 14 | V | |
| Input Current (Low Brightness) | IinL | Vin=TYP. ±1% ON VR=MIN (Iout=MIN) | -- | 100 | -- | mA | 4.8V |
| Input Current (High Brightness) | IinH | Vin=TYP. ±1% ON VR=MAX (Iout=MAX) | 4.2 | 4.6 | 5.0 | A | CV=0~0.1V |
| Lamp Current (Low Brightness) | IoutL | Vin=TYP. ±1% ON VR=MIN (Iout=MIN) | -- | -- | -- | mA rms | |
| Lamp Current (High Brightness) | IoutH | Vin=TYP. ±1% ON VR=MAX (Iout=MAX) | 4.5 | 5.0 | 5.5 | mA rms | CV=0~0.1V |
| Lamp Frequency | | | 45 | 48 | 52 | KHZ | |
| Dimming | | Tube Current | 0% | - | 100%- | | |
| Dimming Frequency | | | 255 | 270 | 295 | HZ | |
| Brightness Control | | Connection of Voltage | 4.8 | - | 0.15 | V | |
| Output Voltage | | CCFT Current =5mA | -- | 850 | -- | V | |

Connector Socket

(CN7) Input Connector

| PIN No | Symbol | Description |
|--------|------------|------------------------------|
| 1~3 | Vin | DC+12V |
| 4~6 | GND | GND (0V) |
| 7 | Brightness | Brightness Control |
| 8 | Control | ON/OFF control ON=+5V OFF=0V |

(CN1~CN6) Output Connector

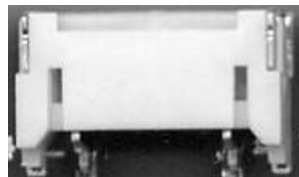
| PIN NO | Symbol | Description |
|--------|--------|-------------------|
| 1 | Output | Lamp High Voltage |
| 2 | Output | Lamp High Voltage |

Connector Model No & Brand

| Connector No. | Connector Parts No | Brand |
|---------------|--------------------|-------|
| CN1~6 | SM02(8.0) | JST |
| CN8 | NC | |
| CN7 | S8B-PH-SM3-TB2 | JST |



S8B-PH-SM3
(pin1)



SM02 (8.0)
(pin1)



Mechanical Characteristics

Dimension: 205mm*80mm*10mm

Weight:

PCB DIMENSION

