



SPECIFICATIONS

LM151X / LM157X / HLD1511 REV.1 PAGE 1 OF 4

DATA DISPLAY AG

LM151X / LM157X / HLD1511

**DC/AC INVERTER
SPECIFICATION**

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SPECIFICATIONS

LM151X / LM157X / HLD1511 REV.1 PAGE 2 OF 4

1. DESCRIPTION

- This DC / AC Inverter shall be used for LCD Monitor.
(Double lamp type)

2. SCOPE

- Wide input range (9.0V - 20VDC)
- PWM control method
- Remote ON/OFF control
- Open load protection
- Current feed back control method
- Voltage dimming control (0.0V - 3.5VDC)
- Double lamp type (13.8 to 15.1 inch)

3. ELECTRICAL CHARACTERISTICS

Description	Min	Typ	Max	Unit
Input Voltage	9.0	12	20	VDC
Input Current			1400	mA
Open Voltage	1800			VAC rms
Lamp Voltage		700		VAC rms
Output Current (1CCFL)	0.8	1.1	1.4	mA
	7.5	8.0	8.5	mA
Output Frequency	35	45	55	KHz
Efficiency	80			%



SPECIFICATIONS

LM151X / LM157X / HLD1511 REV.1 PAGE 3 OF 4

3.1 DC / AC Inverter input connector configuration (CN1)

Pin no.	Symbol	Desc	Remark
1	V_{in}	DC input	
2	GND	GND (OV)	
3	Vbr (bright)	0.0 - 3.5 VDC	
4	GND		
5	Vront	0/5Vdc (Hiactive)	

3.2 DC / AC Inverter output connector configuration (CN2,3)

Pin no.	Symbol	Desc	Remark
1	VL	H.V	
2	N.C		
3	GND	GNC	

3.3 Connector specification

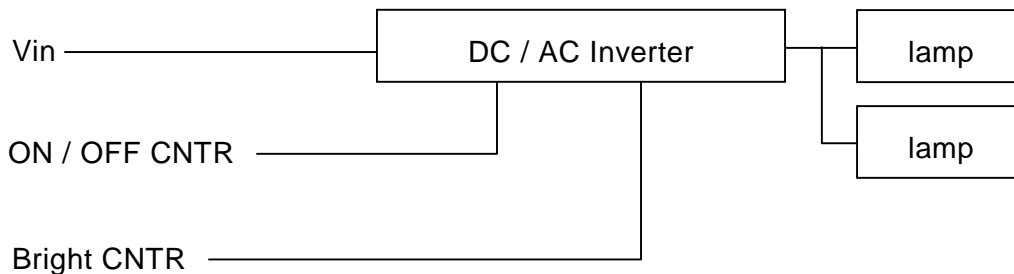
Conn. No.	Maker P / N (Vendor)	Remark
Input (CN1)	AW0500-50 or compatible	5PIN
Output (CN2)	SM02 (8.0) B – BHS – 1 TB (IST) or compatible	2PIN



SPECIFICATIONS

LM151X / LM157X / HLD1511 REV.1 PAGE 4 OF 4

4. BLOCK DIAGRAM



5. OVERALL DIMENSION

5.1 PCB Dimension

165 mm (L) x 25 mm (W) x 12mm (H)

6. ENVIRONMENT

6.1 Temperature range

Operating: -10 ... +60 °C

Storage: -25 ... +70 °C

6.2 Humidity

Operating: 20% ... 80%

Storage: 10% ... 90%

7. BURN-IN CONDITION

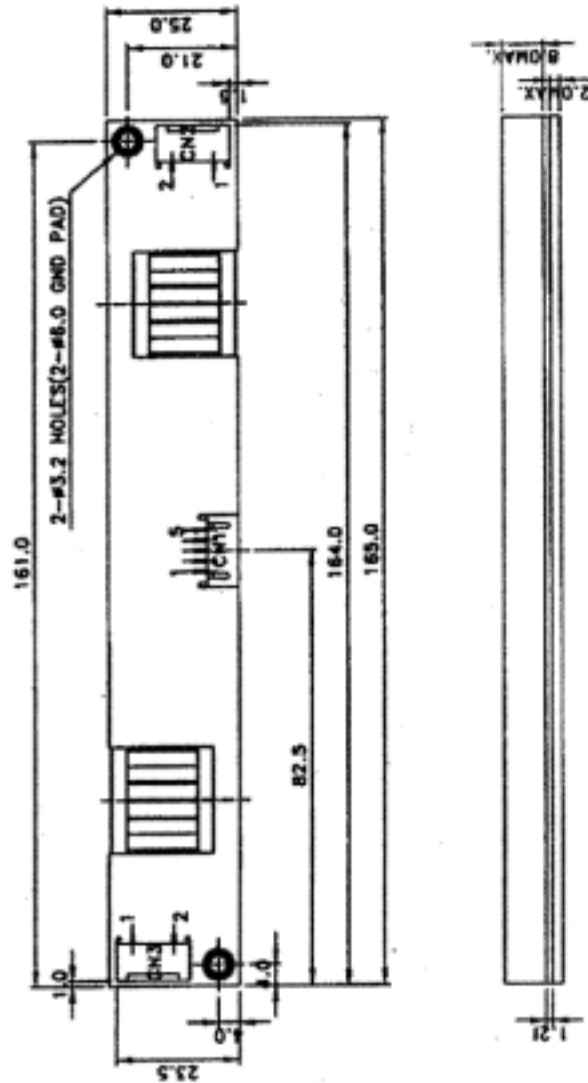
Burn-in criteria shall be as follows

Temperature condition: 50°C

Load condition maximum load

Input voltage 12NDC

Burn-in time 8Hrs



ISI 1502 SPECIFICATION

1. CN1 : JST 55B-PH-SM
 PIN1 : VIN PIN2 : GND PIN3 : BRT
 PIN4 : GND PIN5 : ON/OFF
2. CN2 : JST SM02(B.0)B-BHS-1-TB
 PIN1 : HV1 PIN2 : LV1
3. CN3 : JST SM02(B.0)B-BHS-1-TB
 PIN1 : HV2 PIN2 : LV2