



# SPECIFICATIONS

HD-10-005 REV.5 PAGE 1 OF 1

**DATA DISPLAY AG**

**HD-10-005**

**DC/AC INVERTER  
SPECIFICATION**

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# SPECIFICATIONS

HD-10-005 REV.5 PAGE 2 OF 2

## 1. APPLICATION

This DC/AC inverter shall be used for LCD monitor (double lamp type).

## 2. SCOPE

- Wide input range
- PMW control method
- Remote ON/OFF control
- Open load protection
- Current feed back control method
- Voltage dimming control (0.0 V ~ 4.2 VDC)
- Double lamp type

## 3. ELECTRICAL CHARACTERISTICS

Discription	Min.	Typ.	Max.	Unit
Input voltage	9.5	12	13.5	VDC
Input current		900	1000	MA
Open voltage	1300			VAC rms
Lamp voltage	540	580	665	VAC rms
Output current (1 CCFL)	2.5	3.0	3.5	mA <sup>1)</sup>
		6	8.0	mA <sup>2)</sup>
Output frequency	50	55	60	KHZ
Efficiency	80			%

1) min. brightness

2) max. brightness

MTBF: > 75.000 h



# SPECIFICATIONS

HD-10-005 REV.5 PAGE 3 OF 3

## 3.1 DC/AC inverter input connector configuration (CN1)

Pin No.	Symbol	Description
1	Vin	DC input
2	GND	GND (0V)
3	Vbr (bright)	0.0 ~ 4.2 VDC
4	GND	
5	Remote	0/5 Vdc (Hi active)

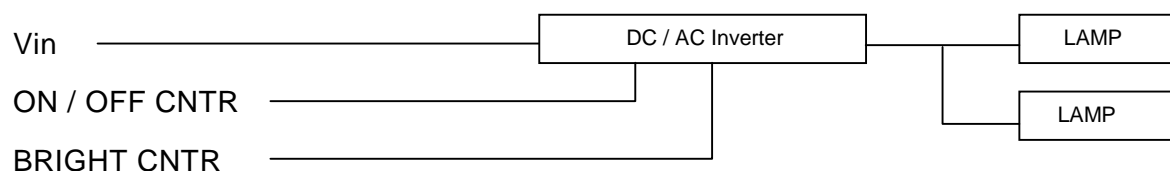
## 3.2 DC/AC inverter input connector configuration (CN2, 3)

Pin No.	Symbol	Description
1	VL	HOT
2	(n.c.)	
3	GND	COLD

## 3.3 Connector specification

Connector No.	Maker P/N (Vendor)	Remark
Input (CN1)	AW 0500-05 (Hanlim) or compatible	5 pin
Output (CN2, CN3)	SM02(8.0)B - BHS - 1 TB(IST) or compatible	2 pin

## 4. BLOCK DIAGRAM





# SPECIFICATIONS

HD-10-005 REV.5 PAGE 4 OF 4

## 5. OVERALL DIMENSION

### 5.1 PCD dimensions (TBD)

- for details please refer attached drawing
- 140 mm (L) x 24 mm (W) x 13 mm (max. H)

## 6. ENVIRONMENT

### 6.1 Temperature range

Operating: TBD (reference: 0C° - 50C°)

Storage: TBD (reference: -20C° - 60C°)

### 6.2 Humidity

Operating: 20% - 80%

Storage: 10% - 90%

## 7. BURN-IN CONDITION

Burn-in criteria shall be as follows:

Temperature condition: 45C° ( $\pm 5$ )

Load condition: Maximum load

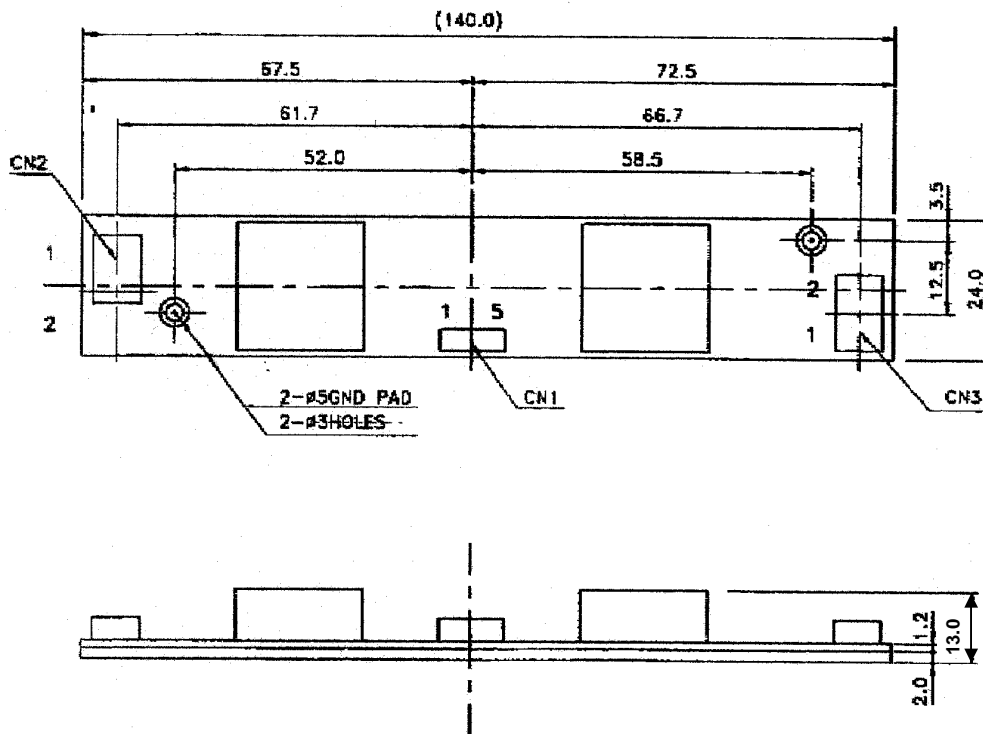
Input voltage: 12 VDC

Burn-in time: 8 Hrs.



# SPECIFICATIONS

HD-10-005 REV.5 PAGE 5 OF 5



## Note

CN1: (AW0500-05, HANLIM)

CN2: Vin (11V - 13VDC)

CN3: Bright cont 0 V: max  
4.2 V: min

CN4: GND

CN5: ON/OFF cont 0 V: OFF  
5 V: ON

CN2,3 (SM02(8.0)B - BHS - 1 TB JST)

CN1: HV

CN2: LV