

## DA128-240-A0 (INVERTER)

Input Voltage (V): 24VDC (22.5V~25.5V)  
Input Current (A): TYPICAL: 5A; MAX: 7A  
Dimension: 320mmx120mmx10mm (L x W x H)

### Description:

This DC to AC inverter designs for 30" 16 CCFL (Cold Cathode Fluorescent Lamp) LCD panels.

### Features:

1. Dual lamp current is measured with current meter for high frequency as show below
2. Our inverters have a built-in 2Ax2 Fuse
3. Lamp frequency shall be detached from the horizontal synchronous frequency and its harmonics as far as possible in order to avoid interference
4. The waveform of the inverter output voltage shall be area symmetric and the design of our inverters have specification for the modularized lamps
5. To avoid over-shoot and inrush current problems, the design of our inverter have soft-startup

### Physical Configuration:

Dimension (mm)	For use with
320x120x10	30" LCD'S

### Temperature and Humidity Ranges:

Temperature range (°C)	Operating	-5 ~ 50°C
	Storage	-20 ~ 70°C
Humidity range	10% ~ 95% RH	

### Electrical Characteristics:

#### DC Input:

Pin NO	Symbol	Description
1,2,3,4,5 (CN1)	Vin	24V
6,7,8,9,10 (CN1)	GND	Ground
1,2,3,4,5 (CN2)	Vin	24V
6,7,8,9,10 (CN2)	GND	Ground
12	Von/off	On/off control
11	Vadj	Brightness

#### AC Output :

Pin No	Symbol	Description
1,2 (CN3-CN10)	Vout-H	High Voltage
1,2 (CN11)	Vout-L	Return

### Input Characteristics :

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	REMARK
INPUT VOLTAGE	Vin	22.5	24	25.5	V	-
INPUT CURRENT	Iin	-	5	7	A	Vin=24V,Von/off=5V,Vadj=0V,RL=170KΩ x16
INPUT POWER	Pin	-	120	150	W	Vin=24V,Von/off=5V,Vadj=0V,RL=170KΩ x16
INPUT VOLTAGE	Von/off	-	0	1	V	Off State
		1.5	2	5		On State
INPUT VOLTAGE	Vadj	0	-	3.3	V	0V is max lamp current
EFFICIENCY		75	-	-	%	Vin=24V,Von/off=5V,Vadj=0V,RL=170KΩ x16

### Output Characteristics :

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	REMARK
LAMP CURRENT	IL	22.5	24	25.5	V	-
LAMP CURRENT	IL	-	5	7	A	Vin=24V,Von/off=5V,Vadj=0V,RL=170KΩ x16
LAMP VOLTAGE	VL	-	120	150	W	Vin=24V,Von/off=5V,Vadj=0V,RL=170KΩ x16
FREQUENCY	FL	-	0	1	V	Off State
OUTPUT OPEN VOLTAGE	Vs	1.5	2	5		On State
OUTPUT OPEN PROTECTION	VL	0	-			3.3
OUTPUT SHORT PROTECTION	VL	75	-			-