



INNOVATION PROFESSION EXECUTION

RoHS
Compliant

Splendi **Tech 6** CCFLs Inverter

IN6-QF160221

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Introduction

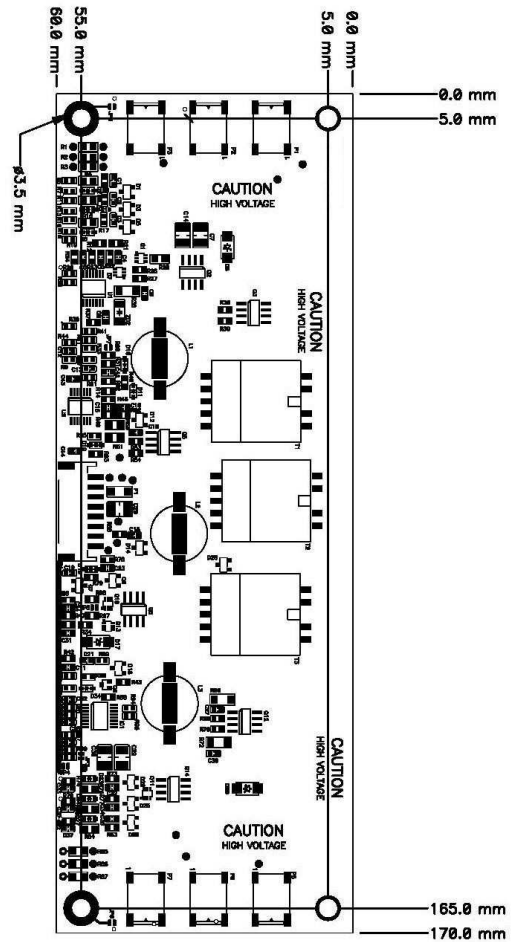
The Splendi IN6-QF160221 DC To AC inverter is designed with 6 ccfls which is able to drive 6-tube backlight. With the advantages of low noise and high frequency, and as a low profile and light weight switching power supply, it's compatible to the LCD panels of AUO, CMO, Kyocera, Samsung, Sharp, NEC, Mitsubishi and LG...etc.

Features

- Applicable to 6 tubes backlight
- Constant current output
- Possesses open load protection when lamp is open
- No load-output auto stop
- Meet TCO 99

Dimension (L x W x H):
170mm x 60mm x 10.5mm

Weight: Max. 75g



Operating Conditions

Item	Symbol	Condition	Min.	Max.	Unit
Input Voltage	Vin		10.5	14	V
Operating Temperature	Top	Ha=90%	0	65	°C
Storage Temperature	Tstg	Ha=95%	-10	80	°C
Operating Humidity	Hop	Ta=0 ~ 55 °C	20	90	%RH
Storage Humidity	Hstg	Ta=20 ~ 80 °C	-	95	%RH

Operating Characteristics

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Input Voltage	Vin	GND=0V	11.0	12	13.2	V
Input Current (Low Brightness)	IinL	Vin=Typ. ±1%ON VR=Min. (Iout=Min.)	700	850	1050	mA CV=5.0V
Input Current (High Brightness)	IinH	Vin=Typ. ±1% ON VR=Max. (Iout=Max.)	2200	2400	2700	mA CV=0.0V
Lamp Current (Low Brightness)	IoutL	Vin=Typ. ±1%ON VR=Min. (Iout=Min.)	0.8	1.2	1.6	mA / rms CV=5.0V
Lamp Current (High Brightness)	IoutH	Vin=Typ. ±1%ON VR=Max. (Iout=Max.)	5.5	6.0	6.5	mA / rms CV=0.0V
Working Frequency			40	42	46	KHz
Dimming		Tube Current	>3.5:1	-	-	
Brightness Control		Connection of Voltage	5.0	-	0	V
Output Voltage		CCFT Current= 5 mA	-	680	-	V

Connector Socket

(P4) Input Connector

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	Digital Brightness Control
8	Control	ON/OFF Control ON=+3~5V, OFF=0~0.8V

(P1、2、3、5、6、7) Output Connector

Pin No.	Symbol	Description
1	Output	Lamp High Voltage
2	Output	Lamp Low Voltage

Connector Model No. & Brand

Connector No.	Symbol	Description
P4	S8B-PH-SM4	JST or Compatible
P1、2、3	SM02B	JST or Compatible
P5、6、7	SM02B	JST or Compatible



S8B-PH-SM4 (Pin1)



SM02B (Pin1)