

INVC445 (Low cost version of INVC444)

This Inverter is designed and adjusted for cold fluorescent lamp used in the LMG7550RPFC and LMG7520RPFC STN liquid crystal display modules.

FEATURES

- ◆ Low cost
- ◆ 12V input voltage
- ◆ Very small, very thin and low power consumption design
- ◆ External On/Off switching of backlight
- ◆ Low noise

GENERAL DATA

Item	Value	Unit
Module Dimensions	90x20x12.5	mm
Weight	13.5 max	g
Output Power	1.4 nominal	W
Efficiency	65 min	%
Mean Time Between Failure (MTBF)	60.000 min	hrs

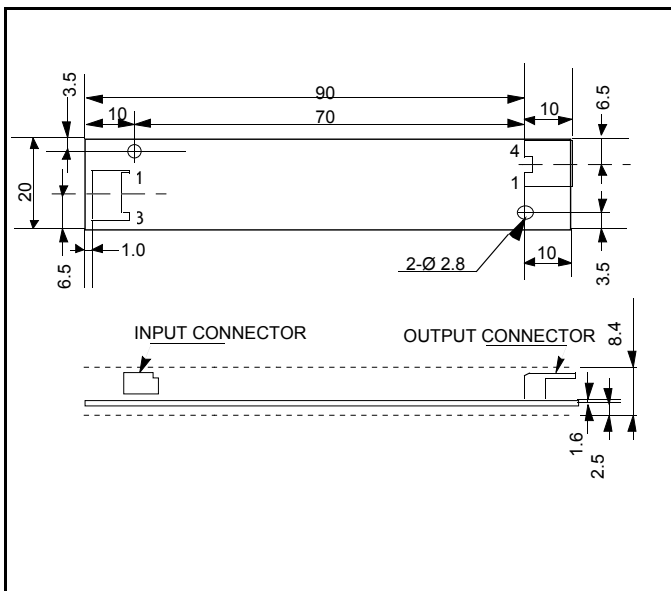
ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Condition	Min	Max	Unit
Input Voltage	V_{MAX}	-	-	14.50	V
Operating Temperature	T_{OP}	-	0	50	°C
Storage Temperature	T_{ST}	-	-20	70	°C
Humidity	-	-	-	90	% RH

ELECTRICAL CHARACTERISTICS

Item	Symbol	Condition	Min	Typ	Max	Unit
Input Voltage	V_{IN}	-	10.8	12.0	13.2	V
Input Current	I_{IN}	12V, $T=25^{\circ}C$	0.15	0.2	0.25	A
Rush Current	I_S	12V, $T=25^{\circ}C$	-	-	1.0	A
Lamp Current	I_L	12V, $T=25^{\circ}C$	4.0	5.0	6.0	mA
Lamp Power	P_L	12V, $T=25^{\circ}C$	-	1.4	-	W
Frequency	f_L	12V, $T=25^{\circ}C$	65	75	85	kHz
Startup Characteristics	5°C +/- 1°C, DC 10.8.V					

MECHANICAL DIMENSIONS



INPUT AND OUTPUT CONNECTORS

Input Connector	Input Housing Connector
JST S3B-PH-K-S	JST PHR-3
Output Connector	Output Housing Connector
MITSUMI	MITSUMI M60-04-30-134P

INPUT CONNECTOR PIN ASSIGNMENT

Pin No	Symbol	Comment
1	CFL ON/OFF	On at low (0.8V min) , Off at open
2	GND	-
3	Vin	12V +/- 10%

OUTPUT CONNECTOR PIN ASSIGNMENT

Pin No	Symbol	Comment
1	CFL HV	Connect to lamp high voltage side
2	NC	-
3	NC	-
4	CFL GND	Connect to lamp low voltage side