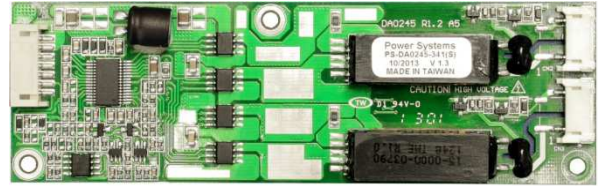
**PS-DA0245-341(S) (12 W DUAL OUTPUTS)****DESCRIPTION :**

This low profile DC/AC Inverter is developed for dual lamps.
Optimized for **LG: LM171WX3-TLC2**

**APPLICABLE LCD:**

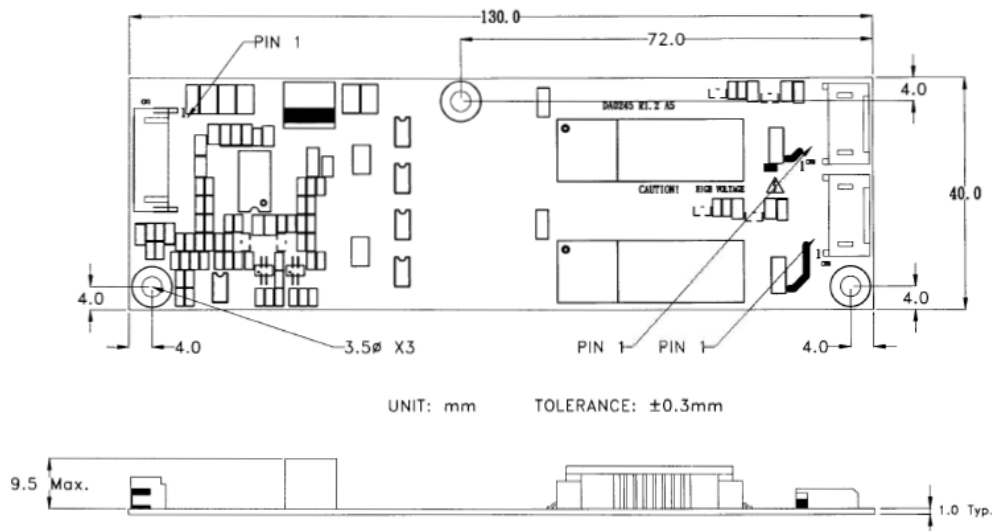
Lamp Voltage 645 Vrms
Lamp Current 2 x 8.0 mArms
Lamp Start Up Voltage 2.400 Vrms (Vin : 12 Vdc)

FEATURES :

Wide operating temperature range
Signal alarm function
Internal PWM dimming
Current feedback circuit
Remote ON/OFF
Independent open lamp and short circuit detection
Additional input capacitor
Extra high starting Voltage
RoHS compliant (S)

TEMPERATURE & HUMIDITY :

Operating Temperature Range -10°C ~ +70°C
Storage Temperature Range -20°C ~ +85°C
Humidity 95 %RH max

DIMENSIONS : L x W x H 130 x 40 x 10.5mm

Unit : mm
Weight :28 (g) typ.

Note: Please use plastic screw in case of a non-insulating mounting base!

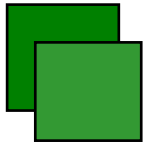
Components

No.	Part Description	Qty.	Material	Manufacturer
1	PCB	1	UL94V-0 (FR-4 or CEM-3)	Top Ever Sun
2	Connector CN1	1	S7B-PH-SM3	JST or equal
3	Connector CN2 + CN3	2	SM02(8.0)-BHSS-1-TB	JST or equal

Power Systems – The Power Solution

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PS-DA0245-341(S) (12 W DUAL OUTPUTS)

Input side CN1:

Pin No.	Symbols	Ratings
CN 1-1	Vin	10.8 ~ 13.2 Vdc
CN 1-2	Vin	10.8 ~ 13.2 Vdc
CN 1-3	GND	
CN 1-4	GND	
CN 1-5	Vbr	0 ~ 5.0 Vdc
CN 1-6	Vst	0 / 5 Vdc
CN 1-7	Vrmt	0 ~ 0.4 = OFF / 2.5 ~ Vin = ON

Output side CN2:

Pin No.	Symbols	Ratings
CN 2-1	VHIGH1	645Vrms
CN 2-2	N.C.	-
CN 2-3	VLOW	GND

Output side CN3:

Pin No.	Symbols	Ratings
CN 3-1	VHIGH1	645Vrms
CN 3-2	N.C.	-
CN 3-3	VLOW	GND

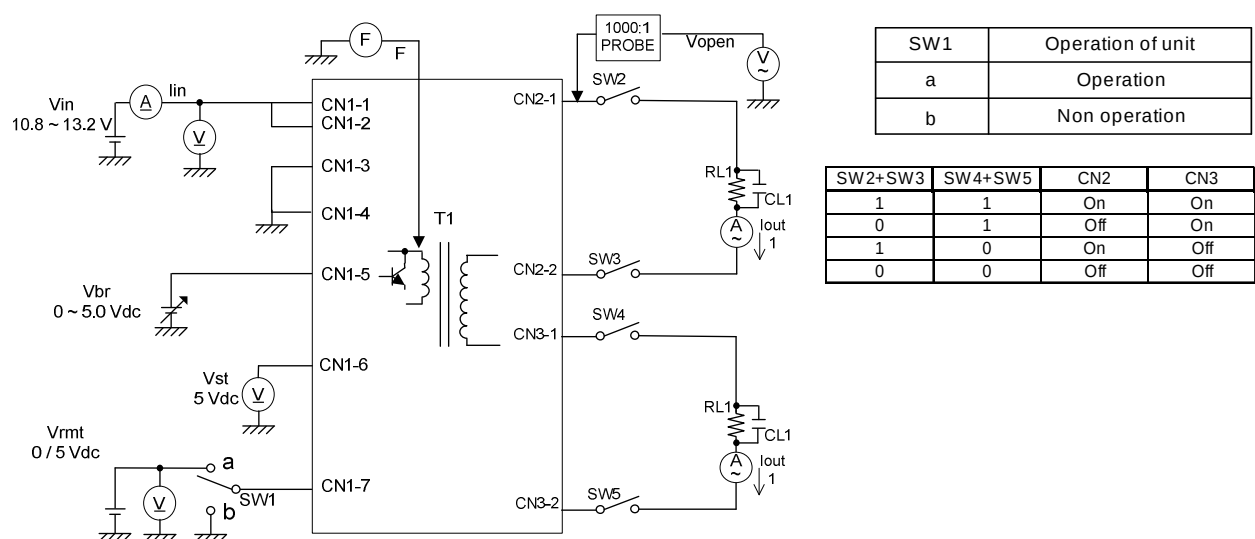
ELECTRICAL CHARACTERISTICS :

Parameters	Symbols	Conditions			Specification			Unit	Note
		Vin (V)	Vbr (V)	Tu (°C)	Min.	Typ.	Max.		
Output Current	Iout	12±1.2	0.0	-10 ~ +70	7.3	8.0	8.7	mArms	Vbr = 0.0Vdc
Output Current	Iout	12±1.2	5.0	-10 ~ +70		17		%	Vbr = 5.0Vdc
Input Current	Iin1	12±1.2	0.0	-10 ~ +70	-	1.2	1.5	Adc	
Frequency	F	12±1.2	0.0	-10 ~ +70	50	60	65	kHz	
Open Circuit Voltage	Vopen	12±1.2	0.0	-10 ~ +70	2.200	2.400	2.600	Vrms	
No load Shutdown	Tsd	12±1.2	0.0	-10 ~ +70	-	1.0	-	sec	without load

Note 1 : Please keep a minimum of 2mm clearance in all directions between inverter high voltage areas and any conductors as marked on mechanical drawing.

Note 2 : Open circuit in all lamps can be detected and shut down within 3 sec.

TEST CIRCUIT :



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