40083: CONVERTER 230V LED 24V 90VA IP67 DIMMABLE 1-10V

Features:

Universal AC input / Full range (up to 305VAC)

Built-in active PFC function

High efficiency up to 90.5%

Protections: Short circuit / Over current / Over voltage / Over temperature

Cooling by free air convection

Fully isolated plastic case

Fully encapsulated with IP67 level (Note.6)

power unit, no FG

Class 2 power unit

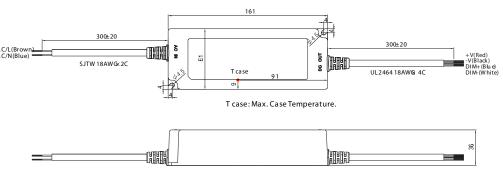
Built-in 3 in 1 dimming function (1~10Vdc or PWM signal or resistance)

Suitable for LED lighting and moving sign applications

Compliance to worldwide safety regulations for lighting

Suitable for dry / damp / wet locations

Mechanical Specification





r**Al**us



SPECIFICATION	5	P	E	CI	F	IC	Α	П	0	Ν
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MODEL				40083							
	DC VOLTAGE			24V							
	CONSTANT CURRENT REGION Note.4			14.4 ~ 24V							
	RATED CURRENT			3.75A							
	RATED POWER			90W							
	RIPPLE & NOISE (max.) Note.2			150mVp-p							
OUTPUT	VOLTAGE TOLERANCE Note.3			±4.0%							
	LINE REGULATION			±0.5%							
	LOAD REGULATION			±0.5%							
	SETUP, RISE TIME Note.7	2000ms, 200ms at 95% load 23 0VAC / 115 VAC									
	HOLD UP TIME(Typ.)	16ms/230VAC 16ms/115VAC at full load									
INPUT	VOLTAGE RANGE Note.5	90 ~ 305VAC	127 ~ 431	VDC							
	FREQUENCY RANGE 47 ~ 63Hz										
	POWER FACTOR (Typ.)	PF>0.97/115V	AC. PF>0.96/2	30VAC, PF>0.	95/277VAC at f	ull load					
	EFFICIENCY (Typ.)		,	90%							
	AC CURRENT (Typ.)	0.95 A / 115VA	.C 0.5A/2	30VAC 0	.4A / 277VAC						
	INRUSH CURRENT(Typ.)	COLD START 55A at 230VAC									
	LEAKAGE CURRENT	<0.75mA / 277VAC									
		95 ~ 108%									
PROTECTION	OVER CURRENT Note.4	Protection type: Constant current limiting, recovers automatically after fault condition is removed									
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		28 ~ 34V							
	OVER VOLTAGE	Protection typ	oe : Shut dowi	o/p voltage,	re-power on to	recover					
		90+/-10 (RTH2)									
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, re-power on to recover									
ENVIRONMENT	WORKING TEMP.	-40 ~ +70°C									
	WORKING HUMIDITY	20 ~ 95% RH non-condensing									
	STORAGE TEMP., HUMIDITY										
	TEMP. COEFFICIENT	+/-0.03%°C (0-50°C)									
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
		UL8750, CSA C22.2 No. 250.0-08(except for 48V, 54V), EN61347-1, EN61347-2-13 independent, IP67, J61347-									
SAFETY & EMC	SAFETY STANDARDS	J61347-2-13 approved; design refer to UL60950-1, TUV EN60950-1									
	WITHSTAND VOLTAGE	I/P-O/P:3.75k	• •	signification to	0200730 17.0						
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25° C / 70% RH									
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 CLASS C, EN61000-3-3									
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024, light industry level(surge 2KV), criteria A									
	MTBF	267.2K hrs min. MIL-HDBK-217F (25°C)									
OTHERS	DIMENSION	161*61*36mm (L*W*H)									
O.HERO	PACKING	0.7Kg; 20pcs/		Т							
NOTE	All parameters NOT specia				rated load and 3	25°C of ambient t	emperature				

- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. Constant current operation region is within 60% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design.
- 5. Derating may be needed under low input voltages. Please check the static characteristics for more details.
- 6. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minutes.
- 7. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.
- 8. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
- 9. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.