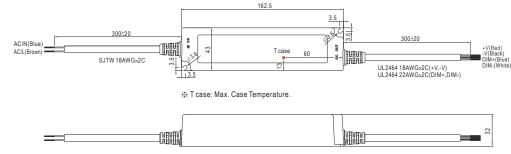
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## 40082: CONVERTER 230V LED 24V 60VA IP67 DIMMABLE 1-10V

## ■ Features :

- Universal AC input / Full range (up to 305VAC)
- · Built-in active PFC function
- High efficiency up to 90%
- 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)
- · 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
- 3 years warranty

## ■ Mechanical Specification





SPECIFICA MODEL	ATION	60W-24V
MODEL	DCVOLTAGE	24V
OUTPUT	DC VOLTAGE	
	CONSTANT CURRENT REGION Note.4	<del></del>
	RATED CURRENT	2.5A
	RATED POWER	60W
	RIPPLE & NOISE (max.) Note.2	- · · · · · · · · · · · · · · · · · · ·
	VOLTAGE TOLERANCE Note.3	±4.0%
	LINE REGULATION	±0.5%
	LOAD REGULATION	±0.5%
	·	1000ms, 80ms / 115VAC at full load 1000ms, 80ms / 230VAC
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load
INPUT	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC
	FREQUENCY RANGE	47 ~ 63Hz
	POWER FACTOR (Typ.)	PF>0.97/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load (Please refer to "Power Factor Characteristic" curve)
	EFFICIENCY (Typ.)	. 89%
	AC CURRENT (Typ.)	0.8A / 115VAC
	INRUSH CURRENT (Typ.)	COLD START 55A(twidth=270 µs measured at 50% Ipeak) at 230VAC
	LEAKAGE CURRENT	<0.75mA / 240VAC
PROTECTION	OVER CURRENT Note.4	95 ~ 108%
		Protection type: Constant current limiting, recovers automatically after fault condition is removed
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.
	OVERVOLTACE	28 ~ 35V
	OVER VOLTAGE	Protection type : Shut down and latch off o/p voltage, re-power on to recover
	OVER TEMPERATURE	90°C ±10°C (RTH2)
		Protection type: Shut down o/p voltage, re-power on to recover
ENVIRONMENT	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")
	WORKING HUMIDITY	20 ~ 95% RH non-condensing
	STORAGE TEMP., HUMIDITY	-40 ~ +80 °C, 10 ~ 95% RH
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes
SAFETY & EMC	SAFETY STANDARDS Note.6	UL8750, CSA C22.2 No. 250.0-08(except for 48V, 54V), EN61347-1, EN61347-2-13 independent, IP67, J61347-1, J61347-2-13
		approved; design refer to UL60950-1, TUV EN60950-1
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (≥60% load); 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	396.7K hrs min. MIL-HDBK-217F (25°C)
	DIMENSION	162.5*43*32mm (L*W*H)
	PACKING	0.45Kg; 32pcs/15.4Kg/0.93CUFT
NOTE	All parameters NOT special     Ripple & noise are measure	by mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  and 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.