



■ Features :

- Universal AC input / Full range (up to 295VAC)
- Protections: Short circuit / Over current / Over voltage / Over temperature
- · Output voltage and constant current level adjustable
- Built-in active PFC function
- IP66 design for indoor or outdoor installations
- · Cooling by free air convection
- 100% full load burn-in test
- · High reliability
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- · Suitable for dry / damp / wet locations
- · 3 years warranty

III ODEL		OLIT OU IL	OLIT 00 10	OLIT OU LU	OLIT 00 24	OLIN 00 00	OLIT 00 00	OLIT 00 42	OE11 00 40	OLI 00 04
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V
	CONSTANT CURRENT OPERATION VOLTAGE Note.5	9 ~ 12V	11.25 ~ 15V	15 ~ 20V	18 ~ 24V	22.5 ~ 30V	27 ~ 36V	31.5 ~ 42V	36 ~ 48V	40.5 ~ 54V
	RATED CURRENT	5A	4A	3A	2.5A	2A	1.7A	1.45A	1.3A	1.15A
	CURRENT RANGE	0 ~ 5A	0 ~ 4A	0 ~ 3A	0 ~ 2.5A	0 ~ 2A	0 ~ 1.7A	0 ~ 1.45A	0 ~ 1.3A	0 ~ 1.15A
	RATED POWER	60W	60W	60W	60W	60W	61.2W	60.9W	62.4W	62.1W
	RIPPLE & NOISE (max.) Note.2	2Vp-p	2.4Vp-p	1.8Vp-p	2.4Vp-p	3Vp-p	3.6Vp-p	4Vp-p	4.6Vp-p	5Vp-p
OUTPUT	VOLTAGE ADJ. RANGE (SVR1)	10.8 ~ 13.5V	13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	37 ~ 46V	43 ~ 53V	49 ~ 58V
	CURRENT ADJ. RANGE(SVR2)	3.75 ~ 5A	3 ~ 4A	2.3 ~ 3A	1.9 ~ 2.5A	1.5 ~ 2A	1.3 ~ 1.7A	1.1 ~ 1.45A	1 ~ 1.3A	0.9 ~ 1.15A
VOLTAGE TOLERANCE Note.3 ±10%										

LINE REGULATION		±3.0%	
LOAD REGULATION		±5.0%	
SETUP TIME		1400ms / 230VAC	2800ms / 115VAC at full load
VOLTAGE RANGE	Note.4	90 ~ 295VAC	127 ~ 417VDC
FREQUENCY RANGE		47 ~ 63Hz	

45A/230VAC

INRUSH CURRENT (Typ.)

OVER VOLTAGE

EMC

NOTE

			11 00112								
INPUT		POWER FACTOR (Typ.)	PF>0.97/115VAC, PF>0.95/230VAC, PF>0.9/277VAC at full load (Please refer to "Power Factor Characteristic" curve)								
	INPUT	EFFICIENCY (Typ.)	86%	87%	88%	89%	90%	90%	90%	91%	91%
	AC CURRENT (Typ.)	0.8A/115VAC									

 LEAKAGE CURRENT
 <0.75mA / 240VAC</td>

 OVER CURRENT
 95 ~ 110%

 Protection type : Constant current limiting, recovers automatically after fault condition is removed

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SHORT CIRCUIT
Hiccup mode, recovers automatically after fault condition is removed

14.5 ~ 17V | 17.5 ~ 21V | 22.8 ~ 26V | 28 ~ 34V | 34 ~ 38V | 41 ~ 46V | 47 ~ 52V

Protection type: Shut down o/p voltage, re-power on to recover

85°C ±10°C (RTH1)

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WORKING TEMP. -30 ~ +70°C (Refer to "Derating Curve")

WORKING HUMIDITY 20 ~ 95% RH non-condensing

ENVIRONMENT | STORAGE TEMP., HUMIDITY | -40 ~ +80°C, 10 ~ 95% RH | | ±0.03%/°C (0 ~ 50°C)

VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes

SAFETY STANDARDS UL879, UL8750, TUV EN61347-1, EN61347-2-13, J61347-2-13, IP66 approved

WITHSTAND VOLTAGE I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC

 ISOLATION RESISTANCE
 I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/70% RH

 EMC EMISSION
 Compliance to EN55015, EN61000-3-2 Class C (≥75% load); EN61000-3-3

 EMC IMMUNITY
 Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61547, light industry level (surge 4KV), criteria A

 MTBF
 523.4Khrs min.
 MIL-HDBK-217F (25℃)

 OTHERS
 DIMENSION
 183*62.5*40.5mm (L*W*H)

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 183*62.5*40.5mm (L*W*H)

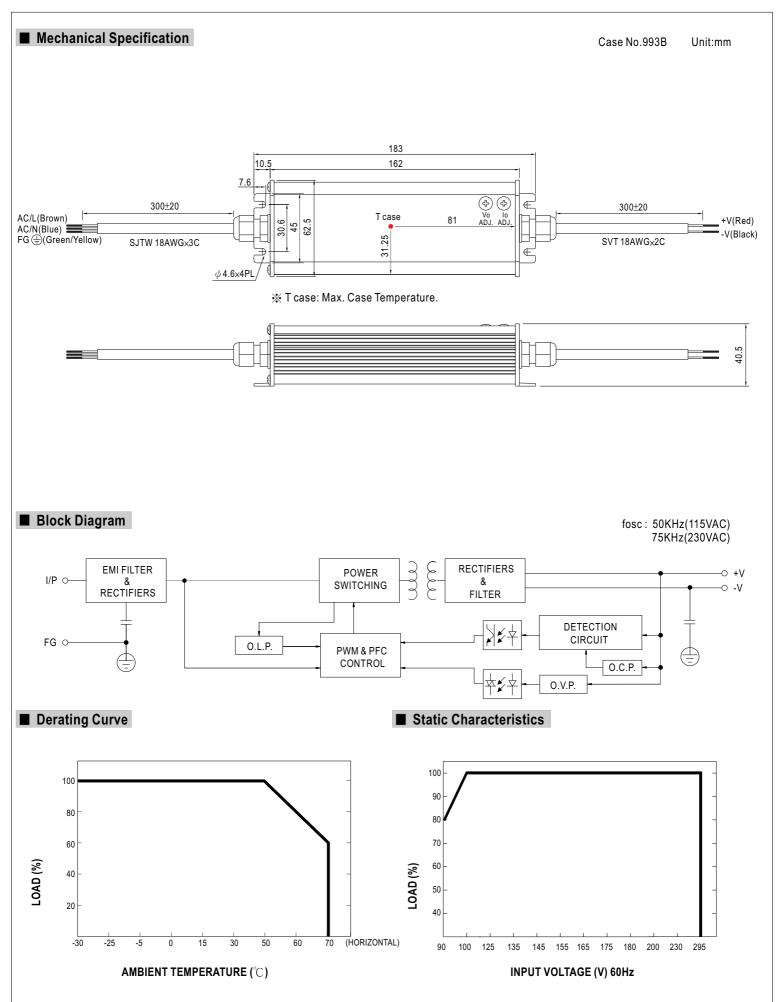
 PACKING
 0.56Kg;24pcs/14.4Kg/1.11CUFT

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47uf parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. Derating may be needed under low input voltage. Please check the static characteristics for more details.
- 5. Constant current operation region is within 75% ~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.
- 6. 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.
- 7. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.

54 ~ 60V

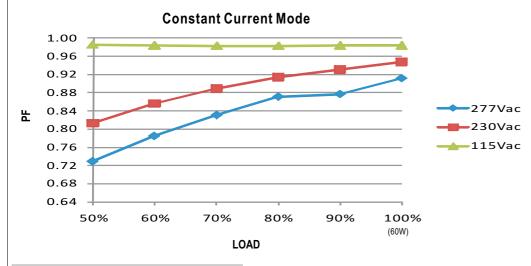
59 ~ 65V





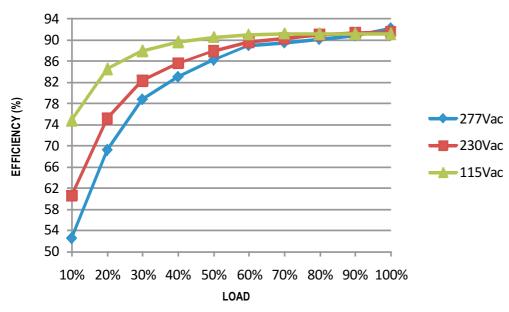


■ Power Factor Characteristic



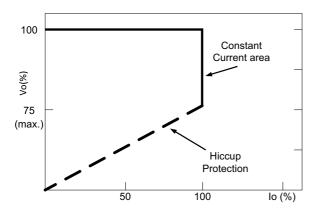
■ EFFICIENCY vs LOAD (48V Model)

CEN-60 series possess superior working efficiency that up to 91% can be reached in field applications.



■ DRIVING METHODS OF LED MODULE

This LED power supply is suggested to work in constant current mode area (CC) to drive the LEDs.



Typical LED power supply I-V curve