



DIMENSION: 195 × 63 × 39mm

Features:

- 180–264VAC input range
- Built-in active PFC function
- Protections: Short circuit / Over load/Over voltage / Over temperature
- Cooling by free air convection
- Output voltage and constant current level adjustable
- IP65 design for indoor or outdoor installations
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp / wet locations
- 3 years warranty

SPECIFICATION

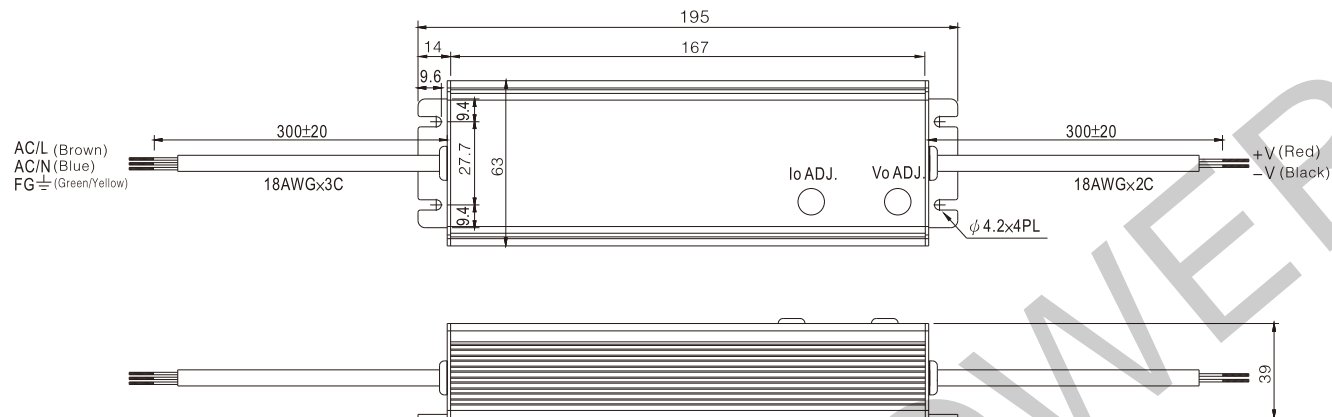


MODEL		CEN-150-24	CEN-150-36	CEN-150-42	CEN-150-48	CEN-150-54
OUTPUT	DC VOLTAGE	24V	36V	42V	48V	54V
	CONSTANT CURRENT OPERATION VOLTAGE	16~24V	24~36V	27~42V	32~48V	36~54V
	RATED CURRENT	6.0A	4.2A	3.6A	3.2A	2.8A
	RATED POWER	144W	151.2W	151.2W	153.6W	151.2W
	RIPPLE&NOISE(max)	2.4Vp-p	3.6Vp-p	4.0Vp-p	4.6Vp-p	5Vp-p
	VOLTAGE ADJ.RANGE	22~27V	32~41V	35~45V	43~53V	46~58V
	CURRENT ADJ.RANGE	Can be adjusted by internal potentiometer or through output cable				
		3.9~6.0A	2.8~4.2A	2.4~3.6A	2.1~3.2A	1.8~2.8A
INPUT	VOLTAGE TOLERANCE	± 10%	± 10%	± 10%	± 10%	± 10%
	SETUP TIME	1400ms/230VAC(Full load)				
	VOLTAGE RANGE	180–264VAC 47 ~ 63Hz, 235 ~ 370VDC				
	AC CURRENT (Typ.)	1.4A/230VAC				
	POWER FACTOR (Typ.)	PF > 0.92/230VAC(Full load)				
	EFFICIENCY (Typ.)	89%	90%	90%	91%	91%
	INRUSH CURRENT (Typ.)	Cold start current 55A/230VAC				
PROTECTION	LEAKAGE CURRENT	< 0.75mA/240VAC				
	OVER CURRENT	95~110%				
		Protection type : Constant current limiting, recovers automatically after fault condition is removed				
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed				
	OVER VOLTAGE	30 ~ 33V	44 ~ 47V	57 ~ 62.6V	57 ~ 62V	63 ~ 68V
ENVIRONMENT		Protection type : Shut down o/p voltage, re-power on to recover				
	OVER TEMPERATURE	95°C ± 10°C(TSW1)				
	WORKING TEMP,HUMIDITY	Protection type : Shut down o/p voltage, re-power on to recover				
		-30°C ~ +70°C; 20% ~ 90%RH(Please refer to "derating curve")"				
SAFETY& EMC	STORAGE TEMP,HUMIDITY	-40°C ~ +80°C; 10% ~ 95%RH Non-condensing				
	VIBRATION	10 ~ 500Hz, 5G 12min./1 cycle, period for 72 min, each along X, Y, Z axes				
	SAFETY STANDARDS	UI8750, TUV EN61347-1, EN61347-2-13, IP65 Certified				
	WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC, I/P-FG: 1.88KVAC, O/P-FG: 0.5KVAC				
OTHERS	ISOLATION RESISTANCE	I/P-O/P: 100M Ohms/500VDC/25°C/70%RH				
	EMC INTERFERENCE	Compliance to EN55015, EN61000-3-2 Class C(≥ 65% Load)				
	EMC EMISSION	Compliance to EN61000-3-2 Class C(≥ 75% Load); EN61000-3-3				
	EMC IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; ENV50204, EN55024, EN61547, light industry level (surge 4KV), criteria B				
OTHERS	DIMENSION	195*63*39 (L*W*H)				
	PACKING	0.85kg/20pcs/18kg/0.026 m³/0.91CUFT				
	MTBF	≥ 530K hrs min. MIL-HDBK-217F(25°C)				

- NOTE:
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 0.1uf & 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 voltage. Please check the static characteristics for more details.
 - 6.Setup time is measured at cold start condition. Turning ON/OFF the power supply frequently may increase the set up time.

Mechanical Specification

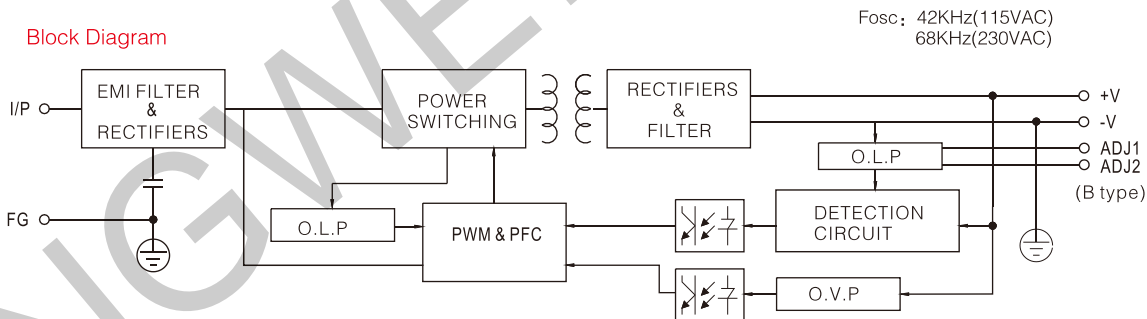
Unit:mm



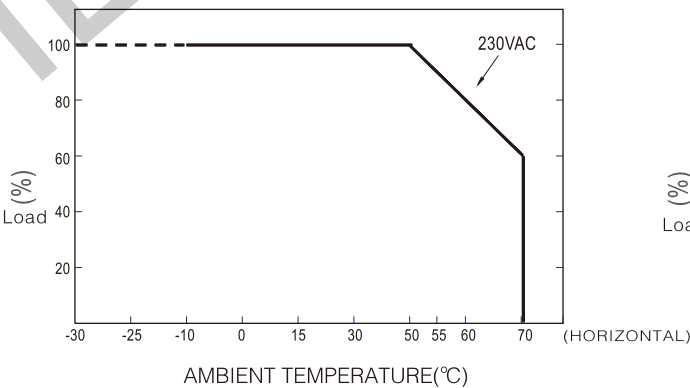
IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer. (Can access by removing the rubber stopper on the case.)

lead-out wire assignment

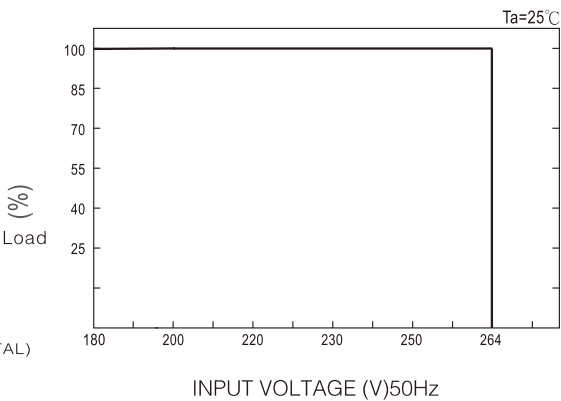
Input(Black three-core)		Output (Black two-core)	
Brown	AC/L	Red	DC OUTPUT +V
Blue	AC/N	Black	DC OUTPUT -V
(Green/Yellow)	Case:⊕ FG		



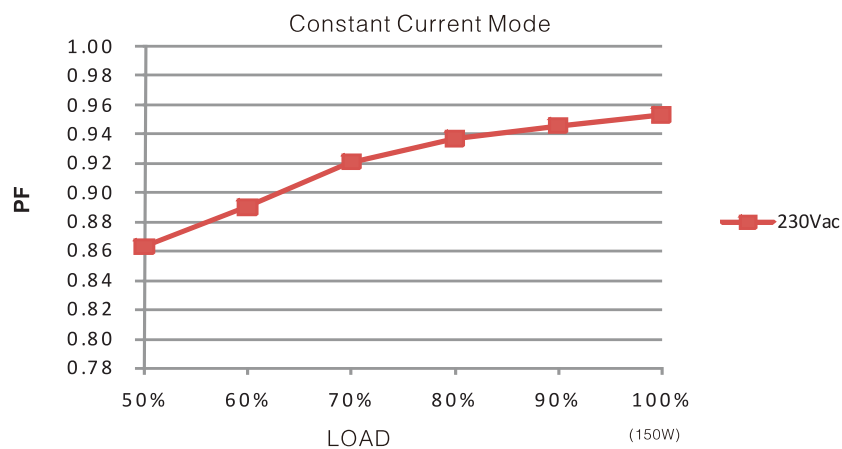
Derating Curve



Static Characteristics

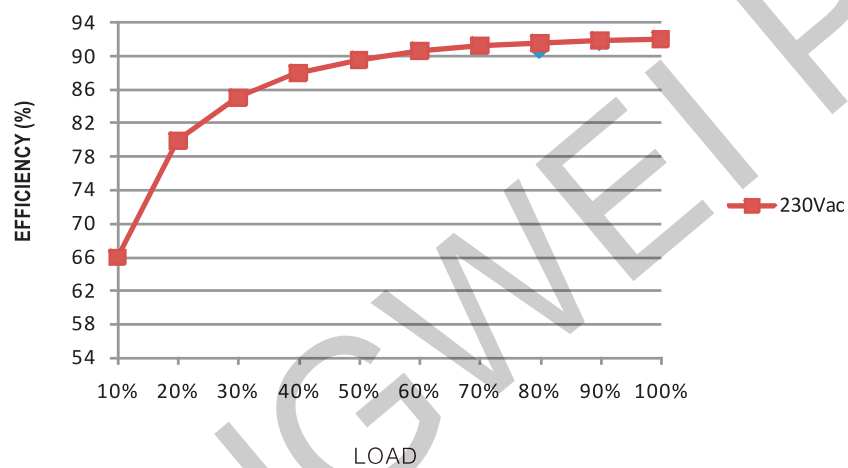


Power Factor Characteristic



Efficiency VS Load(48V Model)

CEN-150 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

