



■ 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
- Class 2 power unit
- 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

SPECIFICATION

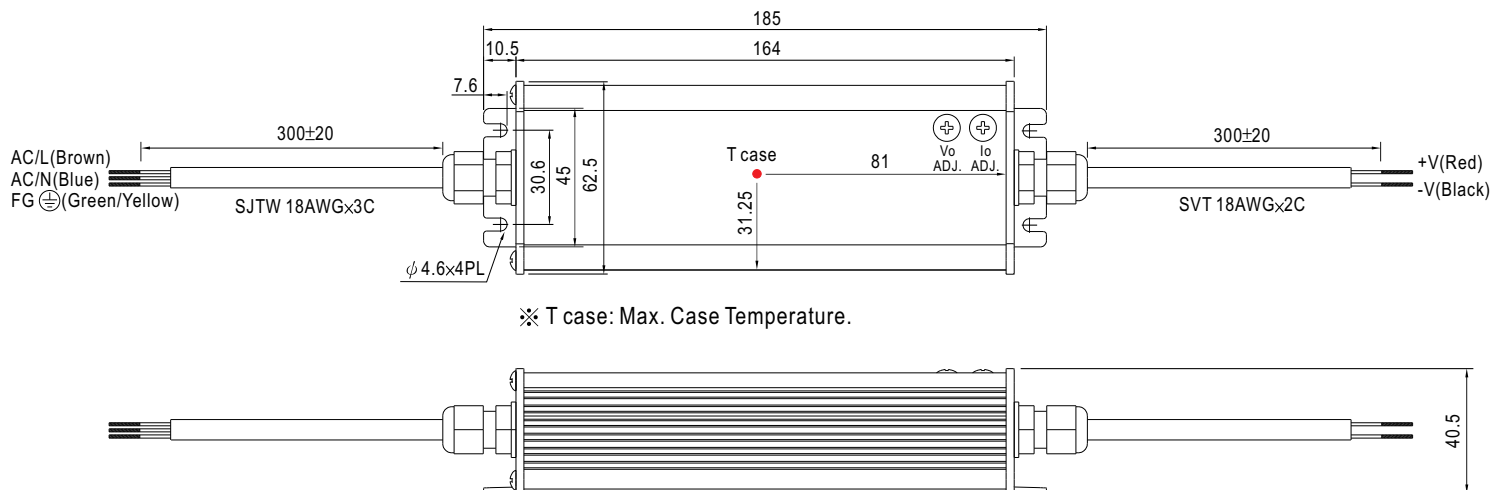


MODEL		CEN-75-15	CEN-75-20	CEN-75-24	CEN-75-30	CEN-75-36	CEN-75-42	CEN-75-48	CEN-75-54
OUTPUT	DC VOLTAGE	15V	20V	24V	30V	36V	42V	48V	54V
	CONSTANT CURRENT OPERATION VOLTAGE Note.5	11.25 ~ 15V	15 ~ 20V	18 ~ 24V	22.5 ~ 30V	27 ~ 36V	31.5 ~ 42V	36 ~ 48V	40.5 ~ 54V
	RATED CURRENT	5A	3.75A	3.15A	2.5A	2.1A	1.8A	1.57A	1.4A
	CURRENT RANGE	0 ~ 5A	0 ~ 3.75A	0 ~ 3.15A	0 ~ 2.5A	0 ~ 2.1A	0 ~ 1.8A	0 ~ 1.57A	0 ~ 1.4A
	RATED POWER	75W	75W	75.6W	75W	75.6W	75.6W	75.36W	75.6W
	RIPPLE & NOISE (max.) Note.2	2.7Vp-p	2Vp-p	2.7Vp-p	3Vp-p	3.6Vp-p	4Vp-p	4.6Vp-p	5Vp-p
	VOLTAGE ADJ. RANGE (SVR1)	13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	37 ~ 46V	43 ~ 53V	49 ~ 58V
	CURRENT ADJ. RANGE (SVR2)	3.75 ~ 5A	2.81 ~ 3.75A	2.36 ~ 3.15A	1.88 ~ 2.5A	1.58 ~ 2.1A	1.35 ~ 1.8A	1.18 ~ 1.57A	1.05 ~ 1.4A
	VOLTAGE TOLERANCE Note.3	±10%							
	LINE REGULATION	±3.0%							
INPUT	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							
	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)							
	EFFICIENCY (Typ.)	87%	88%	89%	90%	90%	90%	91%	91%
	AC CURRENT (Typ.)	1.1A/115VAC	0.55A/230VAC	0.4A/277VAC					
PROTECTION	INRUSH CURRENT (Typ.)	45A/230VAC							
	LEAKAGE CURRENT	<0.75mA / 240VAC							
	OVER CURRENT	95 ~ 110%							
	SHORT CIRCUIT	Protection type : Constant current limiting, recovers automatically after fault condition is removed							
	OVER VOLTAGE	Hiccup mode, recovers automatically after fault condition is removed							
ENVIRONMENT		17.5 ~ 21V	22.8 ~ 26V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 52V	54 ~ 60V	59 ~ 65V
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, re-power on to recover							
	WORKING TEMP.	85°C ±10°C (RTH1)							
	WORKING HUMIDITY	Protection type : Shut down o/p voltage, re-power on to recover							
	STORAGE TEMP., HUMIDITY	-30 ~ +70°C (Refer to "Derating Curve")							
SAFETY & EMC	TEMP. COEFFICIENT	20 ~ 95% RH non-condensing							
	VIBRATION	-40 ~ +80°C, 10 ~ 95% RH							
	SAFETY STANDARDS	±0.03%/°C (0 ~ 50°C)							
	WITHSTAND VOLTAGE	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes							
	ISOLATION RESISTANCE	UL879, UL8750, CSA C22.2 No.207-M89, CSA C22.2 No.250.0-08, TUV EN61347-1, EN61347-2-13, IP66, J61347-1, J61347-2-13 approved							
OTHERS	EMC EMISSION	I/P-O/P: 3.75KVAC I/P-FG: 1.88KVAC O/P-FG: 0.5KVAC							
	EMC IMMUNITY	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC / 25°C / 70% RH							
	MTBF	Compliance to EN55015, EN61000-3-2 Class C (≥ 75% load) ; EN61000-3-3							
NOTE	DIMENSION	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61547, light industry level (surge 4KV), criteria A							
	PACKING	522.2Khrs min. MIL-HDBK-217F (25°C)							
		185*62.5*40.5mm (L*W*H)							

Mechanical Specification

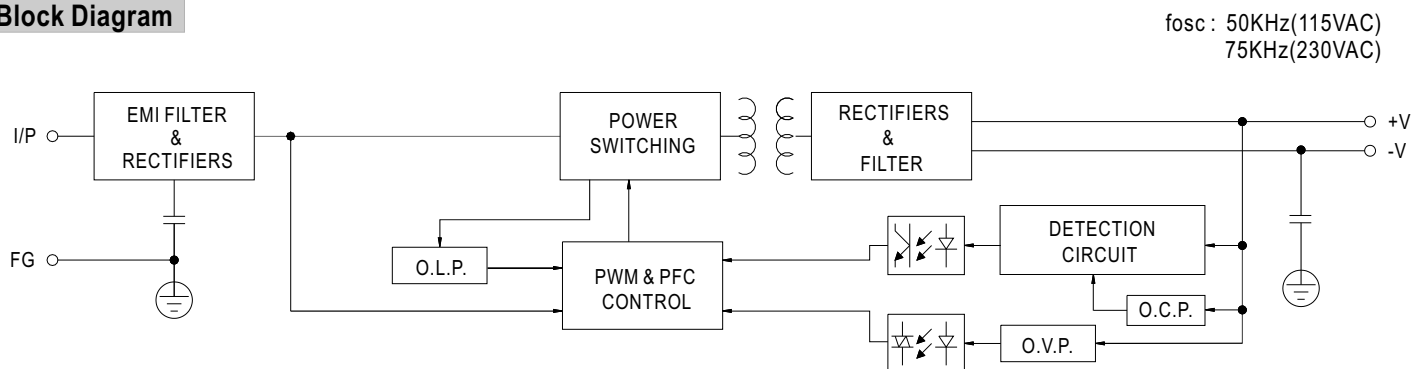
Case No.993B

Unit:mm

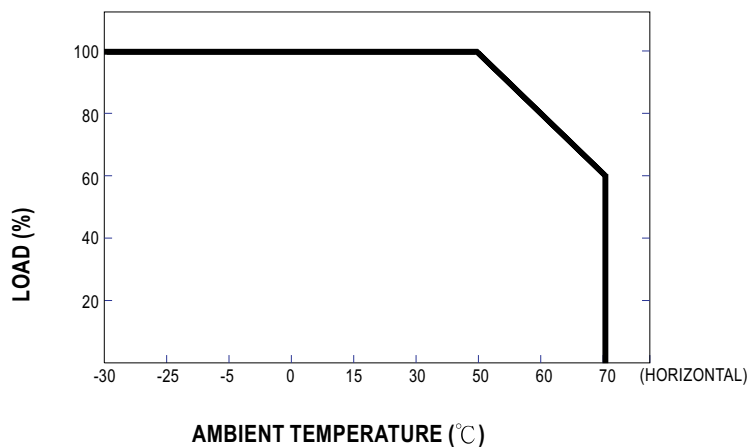


※ T case: Max. Case Temperature.

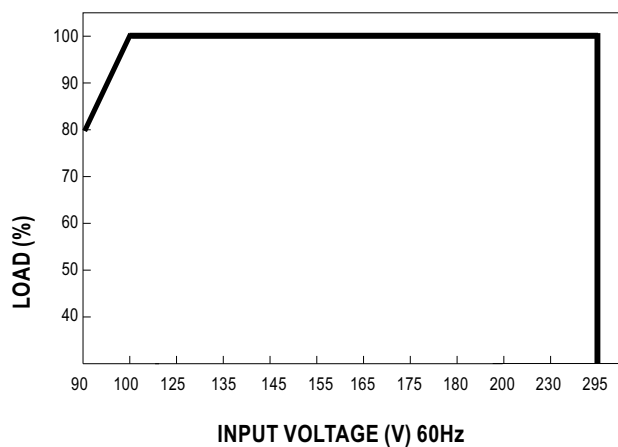
Block Diagram



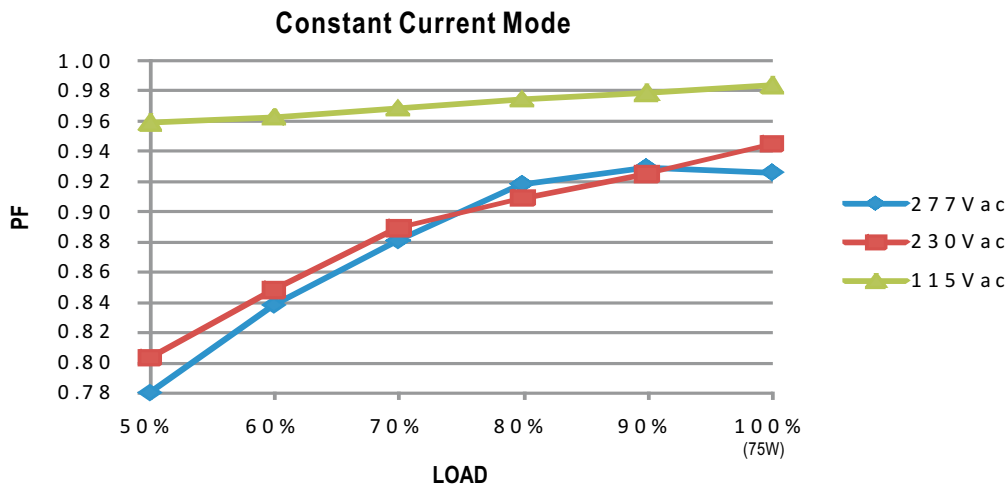
Derating Curve



Static Characteristics

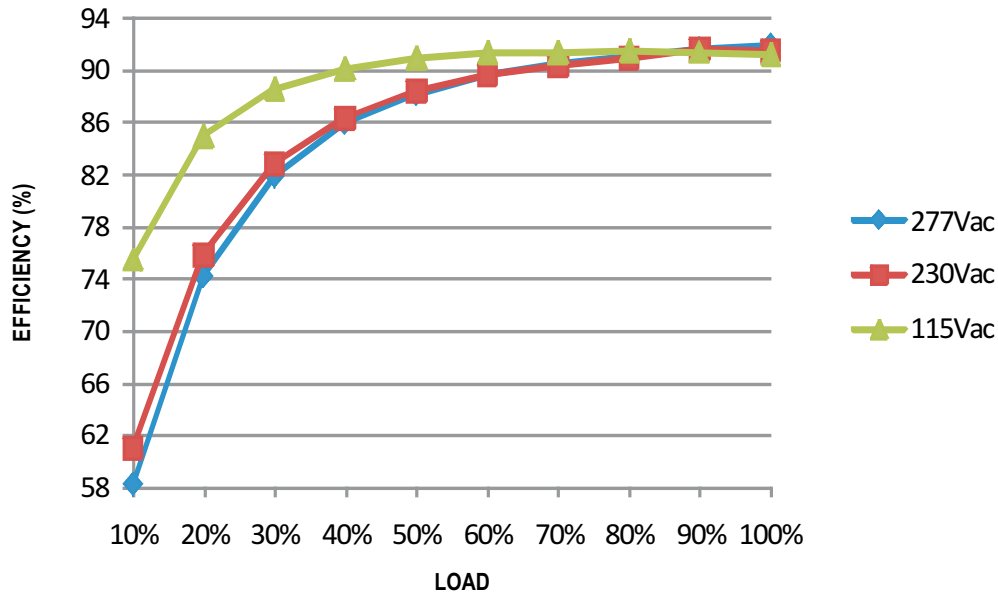


Power Factor Characteristic



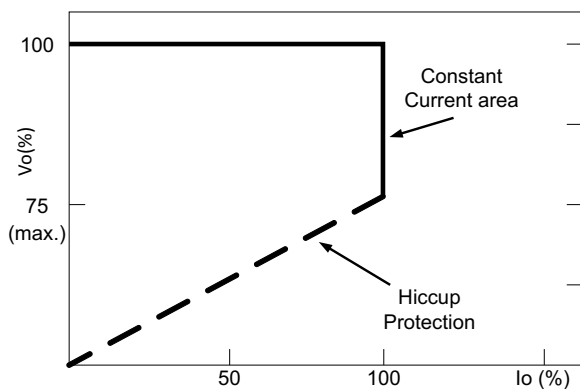
EFFICIENCY vs LOAD (48V Model)

CEN-75 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