

SPECIFICATION



■ Features :

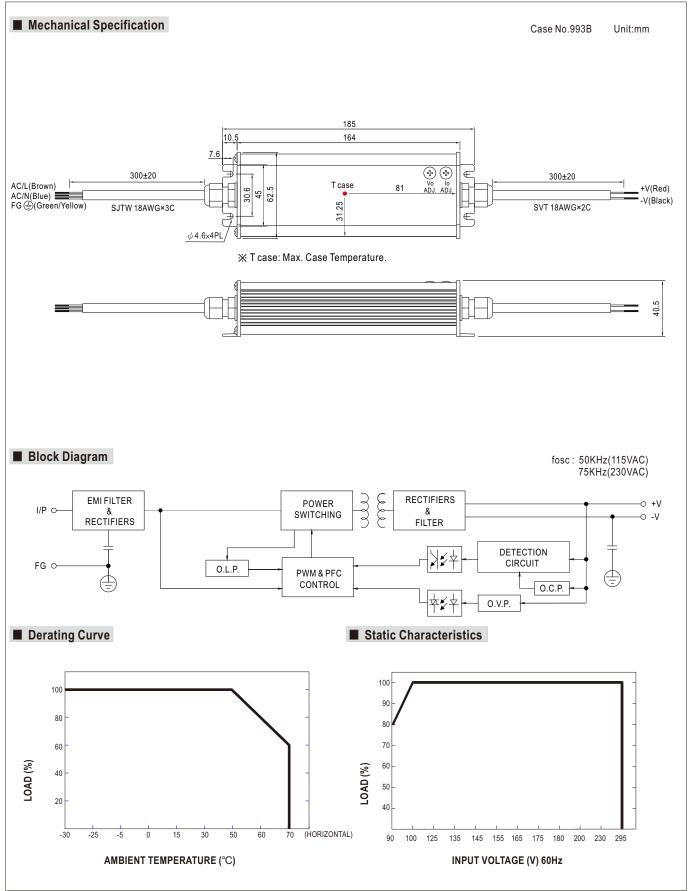
- Universal AC input / Full range (up to 295VAC)
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Output voltage and constant current level adjustable
- Built-in active PFC function
- IP66 design for indoor or outdoor installations
- · Class 2 power unit
- · Cooling by 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

SELV IP66 P. CHUS SELV CBCE

- Suitable for dry / damp / wet locations
- 3 years warranty

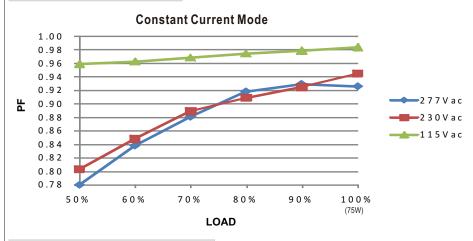
MODEL		CEN-75-15	CEN-75-20	CEN-75-24	CEN-75-30	CEN-75-36	CEN-75-42	CEN-75-48	CEN-75-54
	DC VOLTAGE	15V	20V	24V	30V	36V	42V	48V	54V
OUTPUT	CONSTANT CURRENT REGION Note.5	11.25 ~ 15V	15 ~ 20V	18 ~ 24V	22.5 ~ 30V	27 ~ 36V	31.5 ~ 42V	36 ~ 48V	40.5 ~ 54V
	RATED CURRENT	5A	3.75A	3.15A	2.5A	2.1A	1.8A	1.57A	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		2Vp-p	2.7Vp-p	3Vp-p	3.6Vp-p	4Vp-p	4.6Vp-p	5Vp-p
	VOLTAGE ADJ. RANGE (SVR1)		17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	37 ~ 46V	43 ~ 53V	49 ~ 58V
	CURRENT ADJ. RANGE(SVR2)		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		2.01 3.73A	2.00 0.10A	1.00 2.57	1.50 Z.1A	1.00 1.0A	1.10 1.07A	1.00 1.47
	LINE REGULATION	±3.0%							
	LOAD REGULATION	±5.0%							
	SETUP TIME	500ms / 230VAC 1200ms / 115VAC at full load							
		90 ~ 295VAC 127 ~ 417VDC							
INPUT	FREQUENCY RANGE	47 ~ 63Hz PF>0.97/115VAC, PF>0.95/230VAC, PF>0.9/277VAC at full load (Please refer to "Power Factor Characteristic" curve)							
	POWER FACTOR (Typ.)					ì		_	T .
	EFFICIENCY (Typ.)	87%	88%	89%	90%	90%	90%	91%	91%
	AC CURRENT (Typ.)	1.1A/115VAC 0.55A/230VAC 0.4A/277VAC							
	INRUSH CURRENT (Typ.)	COLD START 45A(twidth=85μs measured at 50% lpeak) at 230VAC							
	LEAKAGE CURRENT	<0.75mA/240VAC							
PROTECTION	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	17.5 ~ 21V	22.8 ~ 26V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 52V	54 ~ 60V	59 ~ 65V
	OVER VOLIAGE	Protection type	: Shut down o/p	voltage, re-pow	er on to recover				
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover							
ENVIRONMENT	WORKING TEMP.	-30 ~ +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 STANDARDS	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							
• • • • • • • •	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC							
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH							
EMC	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 B							
	MTBF	522.2Khrs min. MIL-HDBK-217F (25°C)							
	DIMENSION	185*62.5*40.5mm (L*W*H)							
OTHERS	PACKING	0.6Kg;24pcs/15.4Kg/1.29CUFT							
NOTE	Ripple & noise are measure Tolerance : includes set up Derating may be needed ur Please refer to "DRIVING N The power supply is consided complete installation, the fir Direct connecting to LEDs i	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. to tolerance, line regulation and load regulation. Inder low input voltage. Please check the static characteristics for more details. METHODS OF LED MODULE". dered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the nal equipment manufacturers must re-qualify EMC Directive on the complete installation again. is suggested, but is not suitable for using additional drivers. e latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently							
	connected to the mains.								





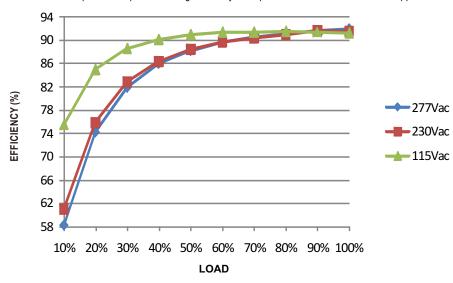


■ Power Factor Characteristic



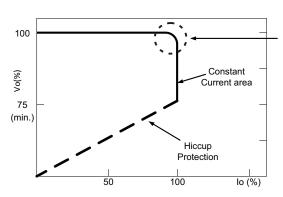
■ EFFICIENCY vs LOAD (48V Model)

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

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.