

### 75W Single Output LED Power Supply

# CEN-75 series



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 [\$ 15885(Part 2/Sec13)

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		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 0.10/1	2.00 0.10/(	1.00 2.07	1.00 2.17	1.00 1.0/1	1.10 1.0//	1.00 1.47	
		+3.0%								
	LOAD REGULATION	±5.0%								
	SETUP TIME	500ms / 230VA	C 1200ms / 11	5VAC at full load						
INPUT		500ms / 230VAC 1200ms / 15VAC at full load 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)								
	TOTAL HARMONIC DISTORTION	THD< 20% when output loading≧75% at 115VAC/230VAC input and output loading≧80% at 277VAC input								
	EFFICIENCY (Typ.)	87%	88%	89%	90%	90%	90%	91%	91%	
	AC CURRENT (Typ.)	1.1A/115VAC		· · · · · · · · · · · · · · · · · · ·	00 /0	5070	5070	5170	5170	
	INRUSH CURRENT (Typ.)	1.1A/115VAC 0.55A/230VAC 0.4A/277VAC COLD START 45A(twidth=85μs measured at 50% [beak) at 230VAC								
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	25 units (circuit breaker of type B) / 25 units (circuit breaker of type C) at 230VAC								
	LEAKAGE CURRENT	<0.75mA / 240VAC								
PROTECTION	OVER CURRENT	95~110%								
	OVER CORRENT	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-power 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, BIS IS15885(for 36V,48V,54V only), EAC TP TC 004,GB19510.1,GB19510.14 approved								
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC								
MC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH								
OTHERS	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (≧75% load) ; EN61000-3-3, GB17743 and GB17625.1, EAC TP TC 020								
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61547, light industry level (surge 4KV), criteria B, EAC TP TC 020								
	MTBF	522.2Khrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	185*62.5*40.5		. ,						
	PACKING	0.6Kg;24pcs/15.4Kg/1.29CUFT								
IOTE	<ol> <li>Ripple &amp; noise are measured a</li> <li>Tolerance : includes set up tole</li> <li>Derating may be needed unde</li> <li>Please refer to "DRIVING MET</li> <li>The power supply is considere</li> </ol>	parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. erance : includes set up tolerance, line regulation and load regulation. rating may be needed under low input voltage. Please check the static characteristics for more details. ase refer to "DRIVING METHODS OF LED MODULE". a power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the nplete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.								

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### 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.



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.