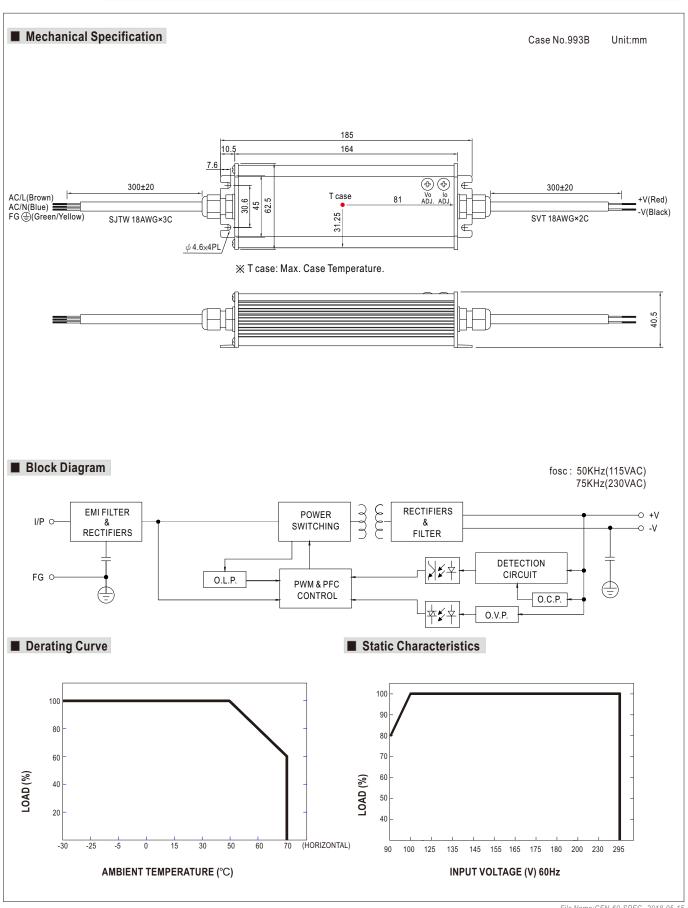


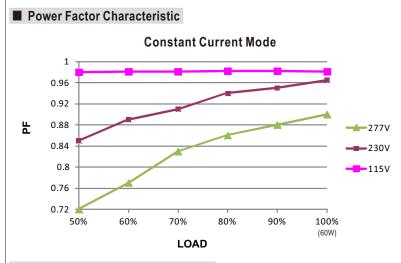
■ Features :

- 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
	IS 15885/Part 2/Sec13)

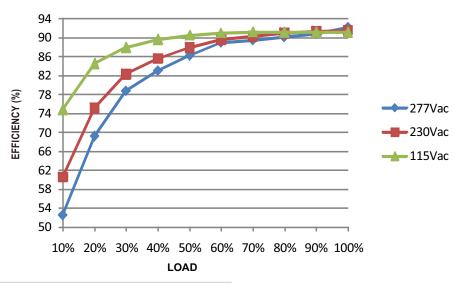
MODEL		CEN-60-12	CEN-60-15	CEN-60-20	CEN-60-24	CEN-60-30	CEN-60-36	CEN-60-42	CEN-60-48	CEN-60-54	
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
ОИТРИТ	CONSTANT CURRENT REGION Note.5	9 ~ 12V	11.25 ~ 15V	15 ~ 20V	18 ~ 24V	22.5 ~ 30V	27 ~ 36V	31.5 ~ 42V	36 ~ 48V	40.5 ~ 54V	
	RATED CURRENT	5A	4A	3A	2.5A	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	
	VOLTAGE ADJ. RANGE (SVR1)			17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	37 ~ 46V	43 ~ 53V	49 ~ 58V	
	CURRENT ADJ. RANGE(SVR2)		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%		1		1	1	1	1		
	LINE REGULATION	±3.0%									
	LOAD REGULATION	±5.0%									
	SETUP TIME	500ms / 230VAC 1200ms / 115VAC 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.)	86%	87%	88%	89%	90%	90%	90%	91%	91%	
	AC CURRENT (Typ.)					3070	30 /0	3070	3170	3170	
	INRUSH CURRENT (Typ.)		0.8A/115VAC								
	MAX. No. of PSUs on 16A	COLD START 45A(twidth=85µs measured at 50% Ipeak) at 230VAC 32 units (circuit breaker of type B) / 32 units (circuit breaker of type C) at 230VAC									
	CIRCUIT BREAKER										
	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	14.5 ~ 17V	17.5 ~ 21V	22.8 ~ 26V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 52V	54 ~ 60V	59 ~ 65V	
	OVER VOLINGE	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									
	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, 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 TPTC 020									
OTHERS	MTBF	523.4Khrs min. MIL-HDBK-217F (25°C)									
	DIMENSION PACKING		5mm (L*W*H)	UET							
NOTE	All parameters NOT specially r Ripple & noise are measured a Tolerance : includes set up tole Derating may be needed unde Please refer to "DRIVING MET The power supply is considere complete installation, the final Direct connecting to LEDs is si	0.6Kg;24pcs/15.4Kg/1.29CUFT mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. erance, line regulation and load regulation. If low input voltage. Please check the static characteristics for more details. IHODS OF LED MODULE". If as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the equipment manufacturers must re-qualify EMC Directive on the complete installation again. luggested, but is not suitable for using additional drivers. test ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.									





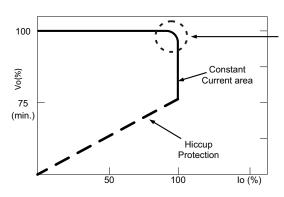
■ EFFICIENCY vs LOAD (48V Model)

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

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.

File Name: CEN-60-SPEC 2018-05-15