

Measures: 7.68 x 2.46 x 1.59"



## ■ Features :

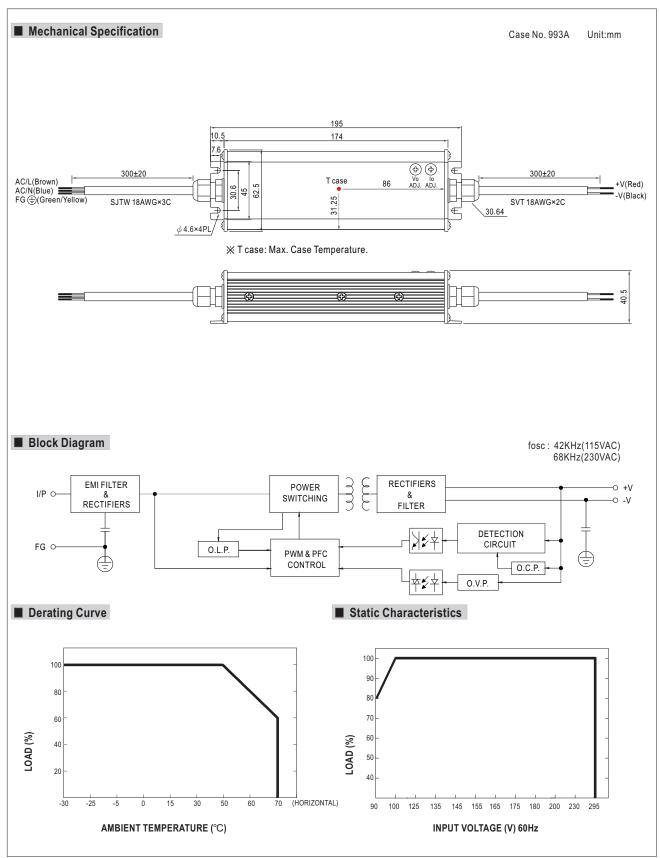
- Universal AC input / Full range (up to 295VAC)
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Output voltage and constant current level adjustable
- Built-in active PFC function
- IP66 design for indoor or outdoor installations
- Class 2 power unit
- Cooling by free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

MODEL		CEN-100-20	CEN-100-24	CEN-100-30	CEN-100-36	CEN-100-42	CEN-100-48	CEN-100-54	
ОИТРИТ	DC VOLTAGE	20V	24V	30V	36V	42V	48V	54V	
	CONSTANT CURRENT REGION Note.5	13 ~ 20V	15.6 ~ 24V	19.5 ~ 30V	23.4 ~ 36V	27.3 ~ 42V	31.2 ~ 48V	35.1 ~ 54V	
	RATED CURRENT	4.8A	4A	3.2A	2.65A	2.28A	2A	1.77A	
	CURRENT RANGE	0 ~ 4.8A	0 ~ 4A	0 ~ 3.2A	0 ~ 2.65A	0 ~ 2.28A	0 ~ 2A	0 ~ 1.77A	
	RATED POWER	96W	96W	96W	95.4W	95.76W	96W	95.58W	
	RIPPLE & NOISE (max.) Note.2	2.0Vp-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)	3.12 ~ 4.8A	2.6 ~ 4A	2.08 ~ 3.2A	1.72 ~ 2.65A	1.48 ~ 2.28A	1.3 ~ 2A	1.15 ~ 1.77A	
	VOLTAGE TOLERANCE Note.3	±10%		'	'	'		'	
	LINE REGULATION	±3.0%							
	LOAD REGULATION	±5.0%							
	SETUP TIME	500ms / 230VAC 1200ms / 115VAC at full load							
INPUT	VOLTAGE RANGE Note.4	90 ~ 295VAC 127 ~ 417VDC							
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)		C. PF>0.95/230V/	AC. PF>0.92/277V	AC at full load (Ple	ase refer to "Power	Factor Characterist	tic" curve)	
	EFFICIENCY (Typ.)	88%	89%	90%	90%	90%	91%	91%	
	AC CURRENT (Typ.)	1.4A/115VAC	0.7A/230VAC	0.5A/277VAC	1 55,0	1 22/2	2.70		
	INRUSH CURRENT (Typ.)	COLD START 45A(twidth=85µs measured at 50% lpeak) at 230VAC							
	LEAKAGE CURRENT	<0.75mA / 240VAC							
PROTECTION	LEMINOL COMMENT	95~110%							
	OVER CURRENT	Protection type: Constant current limiting, recovers automatically after fault condition is removed							
	CHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed							
	SHORT CIRCUIT	22.8 ~ 26V	28 ~ 32V	34 ~ 38V	41 ~ 46V	47 ~ 52V	54 ~ 60V	59 ~ 68V	
	OVER VOLTAGE					41~520	34 ~ 60 V	39~66V	
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, re-power on to recover  Shut down o/p voltage, re-power on to recover							
		1 0 7 1							
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	UL8750, CSA C22.2 No. 250.0-08(except for 48V, 54V), TUV EN61347-1, EN61347-2-13, IP66, J61347-1, J61347-2-13 approv							
AFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC							
MC	ISOLATION RESISTANCE   I/P-0/P, I/P-FG, 0/P-FG: >100M Ohms / 500VDC / 25°C/ 70% RH								
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (≧65% 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							
OTHERS	MTBF	519.5Khrs min. MIL-HDBK-217F (25°C)							
	DIMENSION	195*62.5*40.5m	ım (L*W*H)						
	PACKING	0.6Kg;24pcs/15	4Kg/1.29CUFT						
IOTE	Ripple & noise are measure     Tolerance : includes set up     Derating may be needed ur     Please refer to "DRIVING N     The power supply is considion complete installation, the fir     Direct connecting to LEDs i	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.  retained 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".  power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by inplete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.  act connecting to LEDs is suggested, but is not suitable for using additional drivers.  fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently innected to the mains.							

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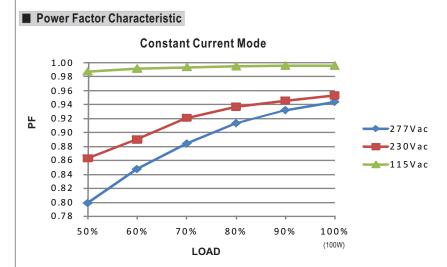


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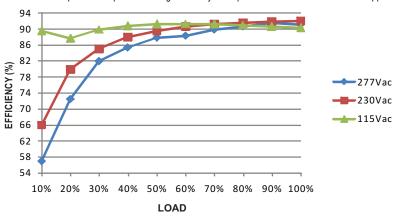
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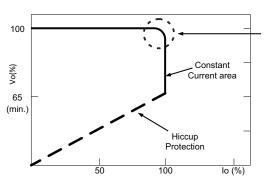
## ■ EFFICIENCY vs LOAD (48V Model)

 $CEN-100\ series\ possess\ superior\ working\ efficiency\ that\ up\ to\ 91\%\ can\ be\ reached\ in\ field\ applications.$ 



## ■ 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.

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