

100W Single Output LED Power Supply

CEN-100 series



Features :

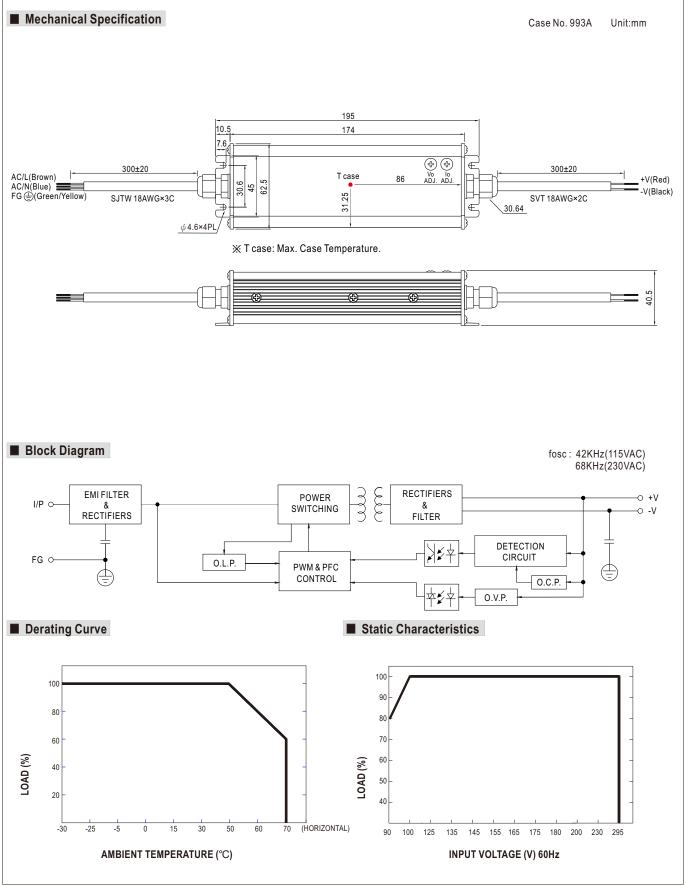
- Universal AC input / Full range (up to 295VAC)
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Output voltage and constant current level adjustable
- Built-in active PFC function
- · IP66 design for indoor or outdoor installations
- Class 2 power unit
- Cooling by free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

SPECIFICATION OF VIOLATION SELV IP66 P VI (for 48V,54V only) c VI (scept for 48V,54V) CBCE

MODEL		CEN-100-20	CEN-100-24	CEN-100-30	CEN-100-36	CEN-100-42	CEN-100-48	CEN-100-54
OUTPUT	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.)	PF>0.97/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load (Please refer to "Power Factor Characteristic" curve)						
	EFFICIENCY (Typ.)	88%	89%	90%	90%	90%	91%	91%
	AC CURRENT (Typ.)	1.4A/115VAC).7A/230VAC 0.	5A/277VAC				
	INRUSH CURRENT (Typ.)	COLD START 45A(twidth=85µs measured at 50% Ipeak) 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	22.8 ~ 26V	28 ~ 32V	34 ~ 38V	41~46V	47 ~ 52V	54 ~ 60V	59 ~ 68V
		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 SAFETY & EMC	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 approved						
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC						
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/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*40.5mm (L*W*H)						
	PACKING	0.6Kg;24pcs/15.4Kg/1.29CUFT						
NOTE	 All parameters NOT special Ripple & noise are measured 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 is 	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						



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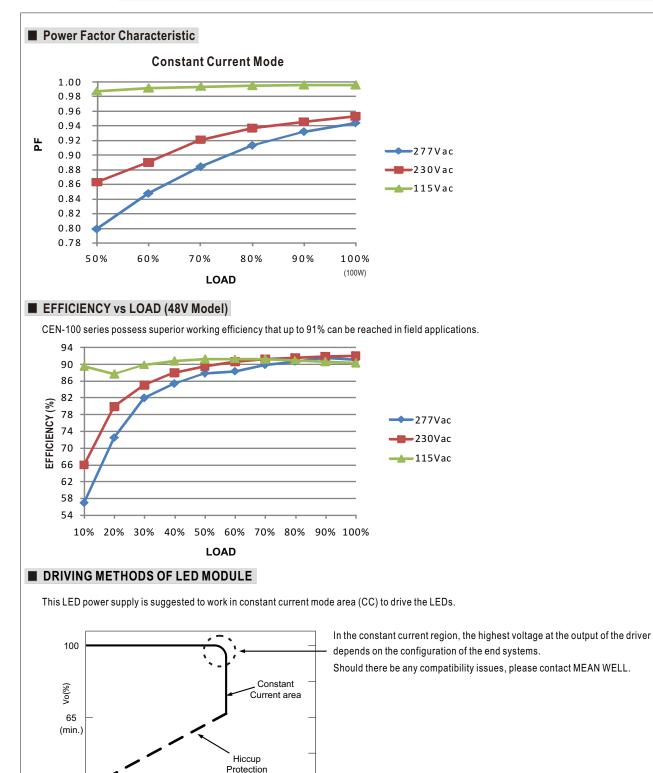


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lo (%)

100

Typical LED power supply I-V curve

50

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