

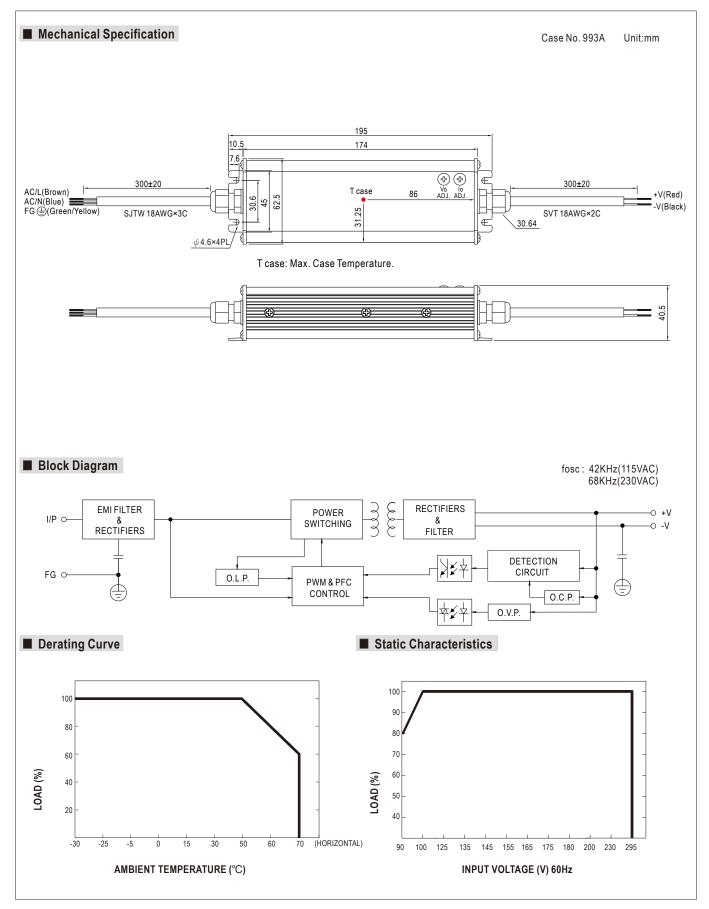


■ Features :

- 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

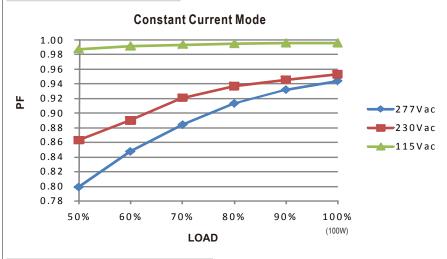
MODEL		CEN-100-42
ОИТРИТ	DC VOLTAGE	42V
	CONSTANT CURRENT REGION Note.5	27.3 ~ 42V
	RATED CURRENT	2.28A
	CURRENT RANGE	0~2.28A
	RATED POWER	95.76W
	RIPPLE & NOISE (max.) Note.2	4Vp-p
	VOLTAGE ADJ. RANGE (SVR1)	• •
	CURRENT ADJ. RANGE(SVR2)	1.48 ~ 2.28A
	VOLTAGE TOLERANCE Note.3	
	LINE REGULATION	±3.0%
	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.)	90%
	AC CURRENT (Typ.)	1.4A/115VAC 0.7A/230VAC 0.5A/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
	OHORT OIROUT	47 ~ 52V
	OVER VOLTAGE	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	UL8750, CSA C22.2 No. 250.0-08(except for 48V, 54V), TUV EN61347-1, EN61347-2-13, IP66, J61347-1, J61347-2-13 approvi
SAFETY & EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC
	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG: >100M Ohms / 500VDC / 25°C/ 70% RH 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) 0.6Kg:24pg:(45.4Kg/1.20CLET)
	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	Ily mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ad at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. adder low input voltage. Please check the static characteristics for more details. AETHODS OF LED MODULE". ered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by a
	complete installation, the fin 7. Direct connecting to LEDs is	ered as a component that will be operated in combination with mar equipment. Since Einic performance will be affected by lal equipment manufacturers must re-qualify EMC Directive on the complete installation again. s suggested, but is not suitable for using additional drivers. elatest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently





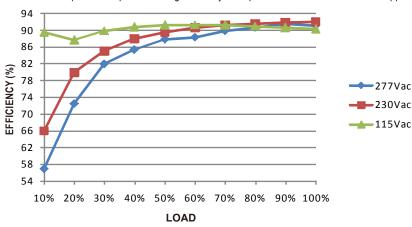


■ Power Factor Characteristic



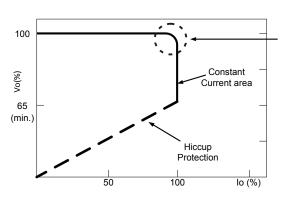
■ EFFICIENCY vs LOAD (48V Model)

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.