



■ Features:

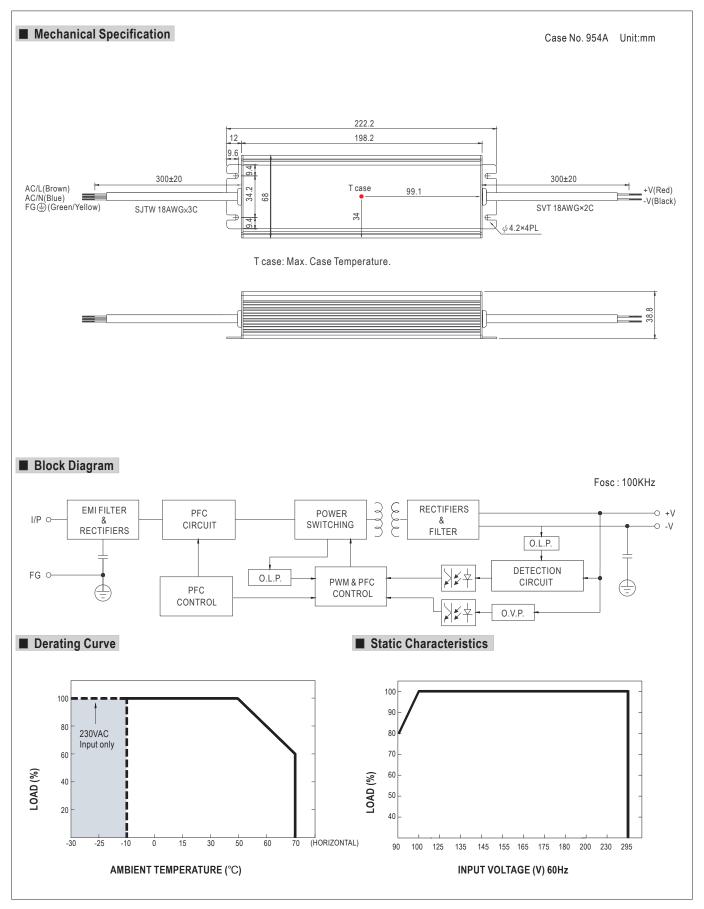
- Universal AC input/Full range (up to 295VAC)
- Built-in active PFC function
- High efficiency up to 88.5%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- IP67 design for indoor or outdoor installations
- Class 2 power unit
- PassLPS
- 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 (Note.6)

SPECIFICATION



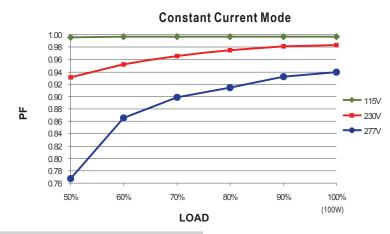
MODEL		CLG-100-24
	DC VOLTAGE	24V
ОИТРИТ	CONSTANT CURRENT REGION Note.7	
	RATED CURRENT Note.5	4A
	RATED POWER Note.5	
	RIPPLE & NOISE (max.) Note.2	
	VOLTAGE ADJ. RANGE	Fixed. Can be modified between 0% ~ -15% rated output voltage
	CURRENT ADJ. RANGE	Fixed. Can be modified between 3% ~ -25% rated output current
	VOLTAGE TOLERANCE Note.3	·
		±1.0%
	LINE REGULATION	±2.0%
	LOAD REGULATION	
	SETUP, RISE TIME	500ms, 80ms / 230VAC 1200ms, 80ms / 115VAC at full load
	HOLD UP TIME (Typ.)	60ms / 230VAC 30ms / 115VAC at full load
INPUT		90 ~ 295VAC 127 ~ 417VDC
	FREQUENCY RANGE	47 ~ 63Hz
	POWER FACTOR (Typ.)	PF>0.95/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load (Please refer to "Power Factor Characteristic" curve)
	EFFICIENCY (Typ.)	88.5%
	AC CURRENT (Typ.)	12V:0.8A/115VAC 0.4A/230VAC 0.3A/277VAC 15V:0.9A/115VAC 0.45A/230VAC 0.35A/277VAC
	AO OORKENT (Typ.)	20V ~ 48V:1.1A/115VAC 0.55A/230VAC 0.45A/277VAC
	INRUSH CURRENT(Typ.)	COLD START 40A(twidth=1030µs measured at 50% lpeak) at 230VAC
	LEAKAGE CURRENT	<0.75mA / 240VAC
PROTECTION	OVER CURRENT (Typ.)	95 ~ 102%
	0 V = 11 0 0 111 (1) p./	Protection type: Constant current limiting, recovers automatically after fault condition is removed
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed
	OVEDVOLTAGE	27 ~ 34V
	OVER VOLTAGE	Protection type: Shut down and latch off 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 & EMC	SAFETY STANDARDS Note.8	UL879, UL8750, UL1310, TUV EN61347-1, EN61347-2-13 independent, CAN/CSA C22.2 No. 223-M91(except for 48V),
		CSA C22.2 No. 250.0-08(except for 48V), CSA C22.2 No. 207-M89(except for 48V), TUV EN60950-1, IP67, J61347-1, J61347-2-13 approved
	WITHSTAND VOLTAGE	I/P-0/P:3.75KVAC I/P-FG:2KVAC 0/P-FG:0.5KVAC
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH
	EMC EMISSION	Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (≧75% load) ; EN61000-3-3
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A
	MTBF	1 7 7 7
OTHERS	DIMENSION	301Khrs min. MIL-HDBK-217F (25°C)
JIIIERO		222.2*68*38.8mm (L*W*H) 1.0Kg; 12pcs/13Kg/0.58CUFT
	1 All parameters NOT aposicilly	rmentioned are measured at 230VAC input, rated load and 25 °C of ambient temperature.
NOTE	2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. Derating may be needed under low input voltages. Please check the static characteristics for more details. 5. This is the maximum possible output current and power, over load protection may be activated slightly below this level to comply with the requirement of UL1310 class 2. 6. 3 years warranty is guaranteed for operating ambient temperature no higher than 68 °C. 7. Please refer to "DRIVING METHODS OF LED MODULE". 8. Safety and EMC design refer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18. 9. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 10. To fulfill requirements of the latest EirP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently	
	connected to the mains.	ratest ETP regulation for lighting fixtures, this LED power supply can only be used bening a switch without permanently File Name:CLG-100-SPEC 2014-03





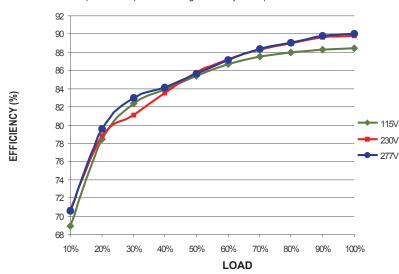


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

CLG-100 series possess superior working efficiency that up to 88.5% can be reached in field applications.

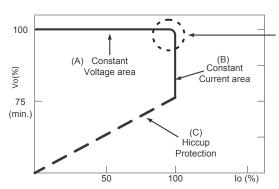


■ DRIVING METHODS OF LED MODULE

There are two major kinds of LED drive method "direct drive" and "with LED driver".

A typical LED power supply may either work in "constant voltage mode (CV) or constant current mode (CC)" to drive the LEDs.

Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode [with LED driver, at area (A)] and CC mode [direct drive, at area (B)].



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.