LUZ NEGRA
linear lighting solutions

meanwell power supply

Ref: 39.019

Features:

- Constant Voltage + Constant Current mode output
- Metal housing with class I design
- Standby power consumption <0.5W at remote off
- IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjunstable via potentiometer
- 3 in 1 dimming (dim-to-off)
- Led high-bay lighting
- Parking space lighting
- Led finishing lamp

Output	Power	480W
	Voltage (V)	12V
	Constant current region	6 ~12V
	Rated current	40A
	Voltage adj. Range	10.2 ~ 12.6V
	Ripple and noise (max.)	150mV
	Voltage tolerance	± 3.0%
	Line regulation	± 0.5%
	Load regulation	± 2.0%
Input	Voltage range	90 ~ 305VAC - 127 ~ 431VDC
	Frequency range	47 ~ 63HZ
	Power factor	PF ≥ 0.98/115VAC - PF ≥ 0.98/230VAC - PF ≥ 0.93/277VAC (full load)
	Total harmonic distortion	THD <20% (load ≥ 50% / 115VAC, 230VAC - load ≥ 75% / 277VAC
	Efficiency	230VAC (92%) - 277VAC (92.5%)
	AC current	7A / 115VAC - 3.3A / 230VAC - 2.9A / 277VAC
	Inrush current	Cold start 70A (twidth=1000μs measured at 50% Ipeak) at 230VAC; Per NEMA 410
	Circuit breaker	1 unit (circuit breaker of type B) / 2 units (circuit breaker of type C) at 230VAC
	Leakage current	< 0.75mA / 277VAC
	Standby power consumption	< 0.5W at remote off
Protection	Over Current	95 ~ 108%
	Short circuit	Constant current limiting, recovers automatically after condintion is removed
	Over volatge	13 ~ 16V (Shut down o/p voltage, re-power on the recover)
Function	Remote On/Off control	On: "High" >2 ~ 5V or open circuit Off: "Low" <0 ~ 0.5V or short circuit
	5V Standby	5VSB : 5V@0.5A; tolerance ± 5%, ripple: 100mVp-p (max)
Environment	Working temperature	-40 ~ 95%
	Max. Case temperature	+90ºC
	Working humidity	20 ~ 95% RH non-condesing
	Storage temperature humidity	-40 ~ +85ºC - 10 ~ 95% RH non-condesing
	Temperature coeficient	± 0.03% ºC (0 ~ 55ºC)
	Vibration	10 ~ 500Hz, 5G 12min / 1cycle, period for 72 min. each along X, Y, Z axes
Other	MTBF	76.6K hrs min. MIL-HDBK-217F (25ºC)
	Dimension	280x144x48,5mm
	Packing	1 unit
	Guarantee	7 years

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Measurements:

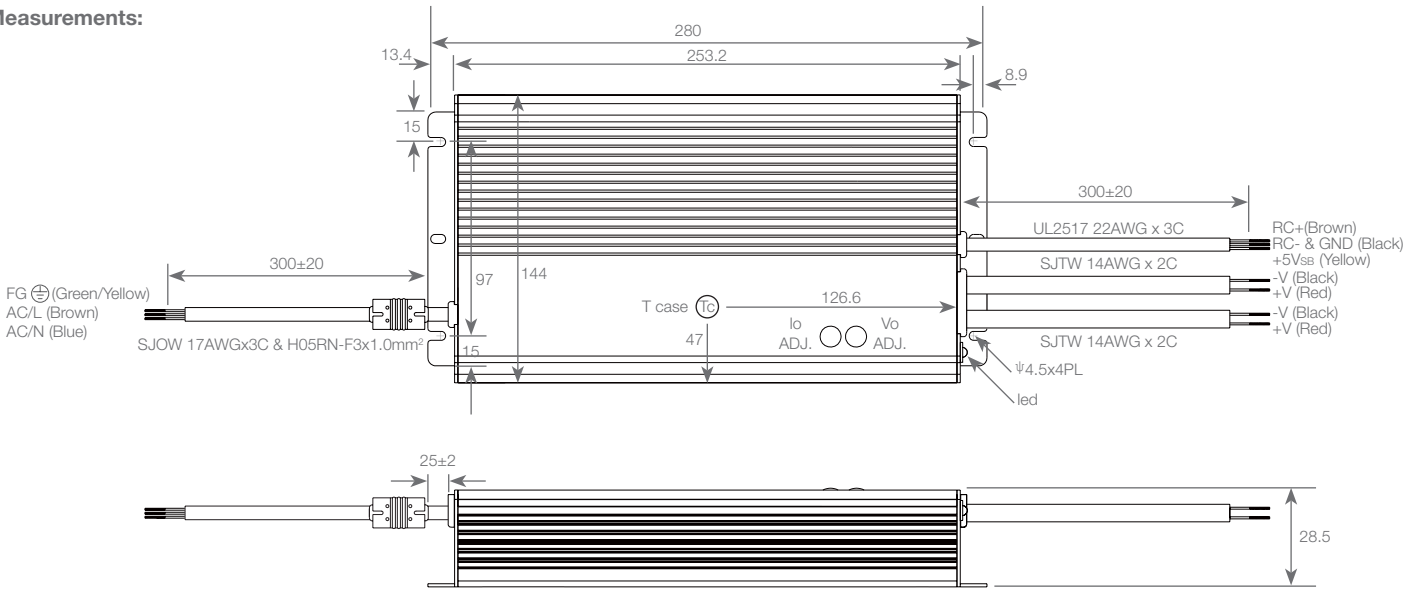
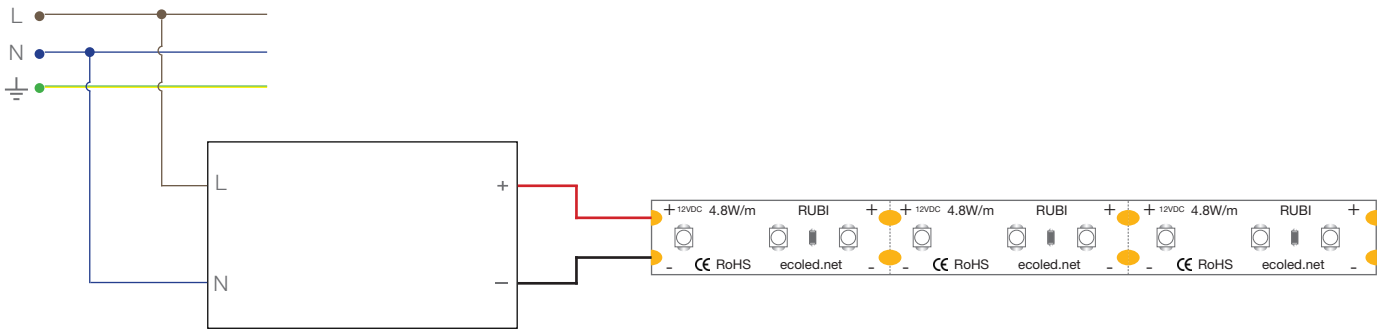


Diagram:

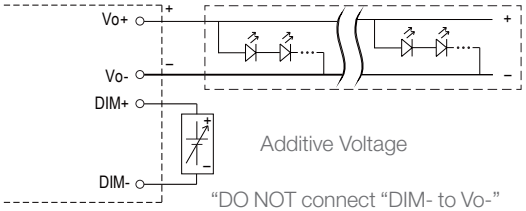


Dimming operation:

3 in 1 dimming function (for AB-Type):

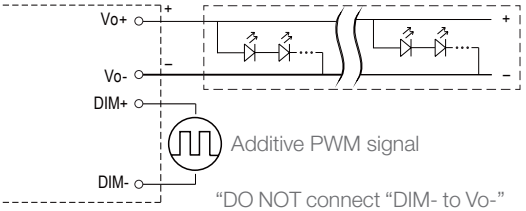
- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to leds is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100μA (typ.)

Applying additive 0 ~ 10VDC:



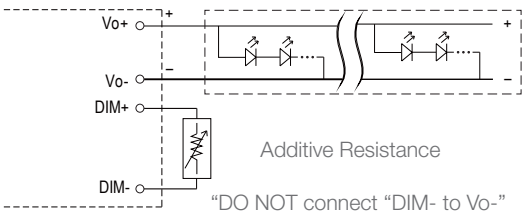
"DO NOT connect "DIM- to Vo-"

Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):



"DO NOT connect "DIM- to Vo-"

Applying additive resistance:



"DO NOT connect "DIM- to Vo-"

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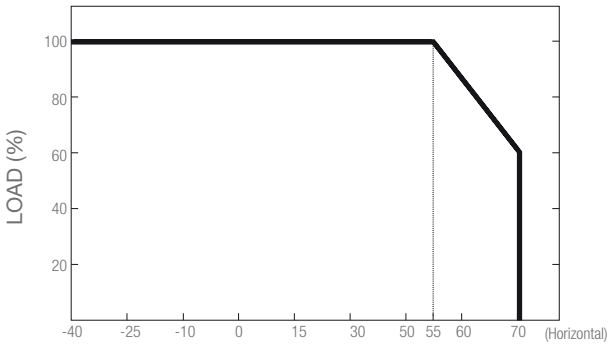
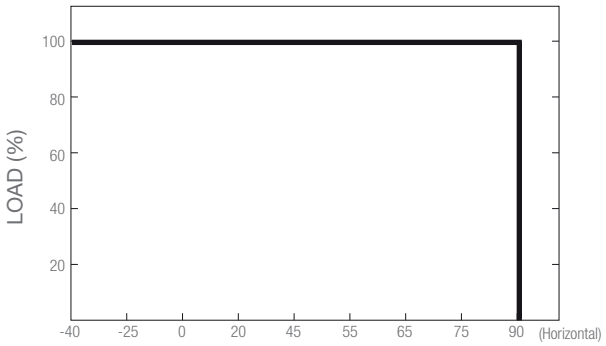
Output load vs Temperature



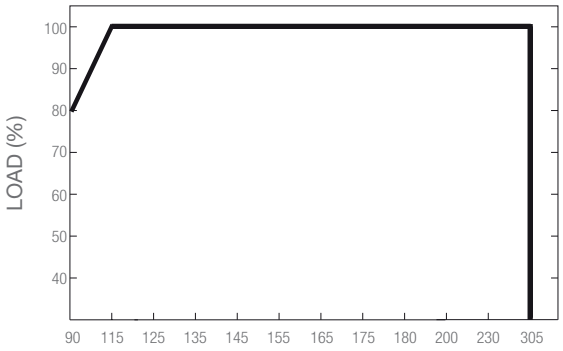
AMBIENT TEMPERATURE, Ta (ºC)

If 39.019 operates in cosntant current mode with the rated current, the maximum workable Ta is 55ºC.



Tcase (ºC)

Static characteristicd

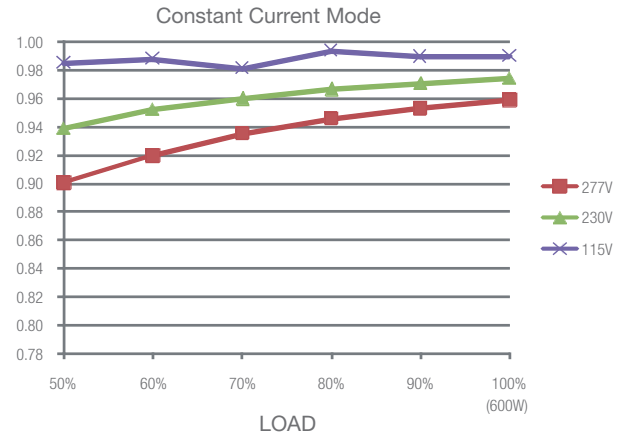


INPUT VOLTAGE (V) 60Hz

De-rating is need under low input volatge

Power Factor (PF) characteristicd

Tcase at 80ºC



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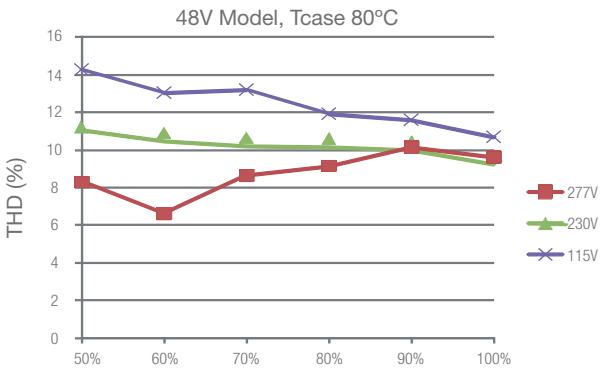
Total harmonic distortion (THD)



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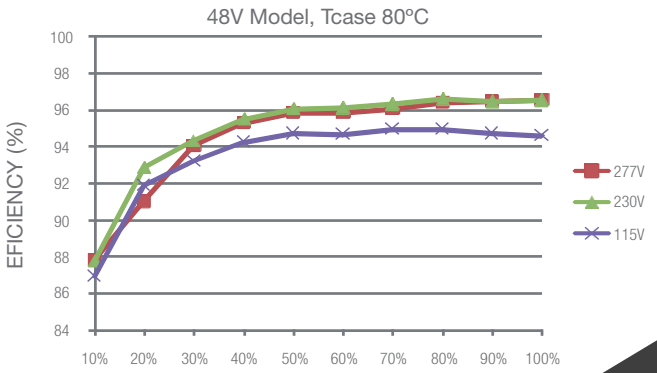
Eficiency vs load

39.019 series possess superior working efficieny that up to 96% can be reached in field applications.



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Assembly and Safety Information

Applied standards CE:

- EN 61347-1
- EN 61347-2-13
- EN 62384
- EN 55015
- EN 61000-3-2
- EN 61000-3-3
- EN 61000-4-2
- EN 61000-4-3
- EN 61000-4-4
- EN 61000-4-5
- EN 61000-4-6
- EN 61000-4-8
- EN 61000-4-11
- EN 61547
- EN 55024

Applied standards CCC:

- GB 4943.1

Applied standards CB:

- IEC 61347-1
- IEC 61347-2-13

Applied standards UL:

- UL 60950
- UL 60950-1
- UL 8750

Description

- Our Ref: 39.019 is a 600W led driver featuring the dual mode constant voltage and constant current output.
- It operates from 90~305VAC and offers models with different rated voltage ranging between 12V and 54V.
- Thanks to its high efficiency of up to 96%, with the fan-less design, the entire series is able to operate at: -40ºC ~ +90ºC (case temperature via air convection).
- Its metal housing design and its IP67/IP65 ingress protection level makes it suitable for both indoor and outdoor applications.
- Our Ref: 39.019 is equipped with varius function options, sich as dimming methodologies, so as to provide the optimal design flexibility for led lighting system.