

Ref: 39.016

Features:

- Wide input range 100~305V AC (Class I)
- Full power output at 70~100% constant power mode operation
- Metal case with IP67, suitable for outdoor application
- Class II power until (only for 24V type)
- Surge protection with 6K V/4K V (10K V/6K V optional)
- 3 in 1 dimming function (Dim to off and Isolation design)
- Protection functions: OVP/SCP/OCP/OTP



Output	Power	150W 24V
	Voltage (V)	24V
	Constant current region	16.8 ~24V
	Rated current	6.25A
	Current adj. Range	3.2~6.25V
	Ripple and noise (max.)	240mV
	Voltage tolerance	± 2.0%
	Line regulation	± 0.5%
Input	Load regulation	± 1%
	Voltage range	100~305VAC 142~431VDC
	Frequency range	47~63Hz
	Power factor	PF ≥ 0.97/115VAC - PF ≥ 0.95/230VAC - PF ≥ 0.92/277VAC (full load)
	Total harmonic distortion	THD <10% (load ≥ 50% 115VAC / 230VAC - load ≥ 75% 277VAC)
	Efficiency	93%
	AC current	1.8A/115VAC 1.0A/230VAC 0.8A/277VAC
	Inrush current	Cold start 50A (width=500µs measured at 50% Ipeak) at 230VAC; Per NEMA 410
	Circuit breaker	4 unit (circuit breaker of type B) / 8 units (circuit breaker of type C) at 230VAC
	Leakage current	< 0.75mA / 277VAC
Protection	No load power consumption	No load power consumption <0.5W for A-Type
	Over Current	95 ~ 108%
	Short circuit	Hiccup mode, recovers automatically after fault condition is removed
Environment	Over voltage	27~34V (Shut down o/p voltage, re-power on the recover)
	Working temperature	-40~+90°C
	Max. Case temperature	+90°C
	Working humidity	20 ~ 95% RH non-condensing
	Storage temperature humidity	-40 ~ +90°C, 10 ~ 95% RH
	Temperature coefficient	± 0.06% °C (0 ~ 60°C)
	Vibration	10 ~ 500Hz, 5G 12min / 1cycle, period for 72 min. each along X, Y, Z axes
Other	Degree of protection	IP67
	MTBF	713.17K hrs min. Telcordia SR-332 (Bellcore); 213.3Khrs min. MIL-HDBK-217F (25°C)
	Dimension	180x63x35.5mm
	Packing	1 unit
	Guarantee	5 years



Measurements:

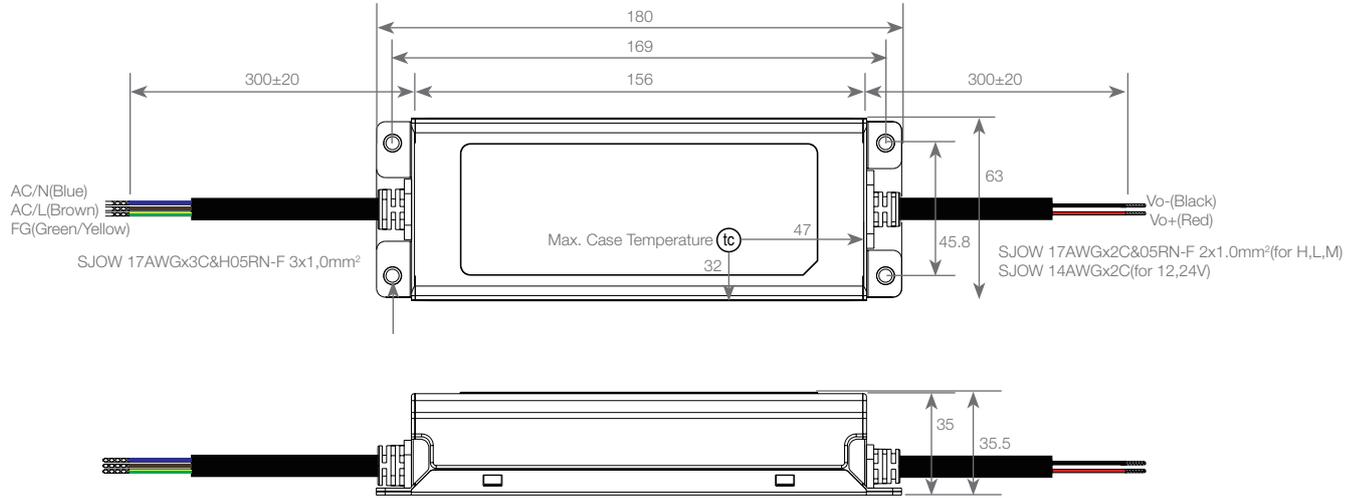
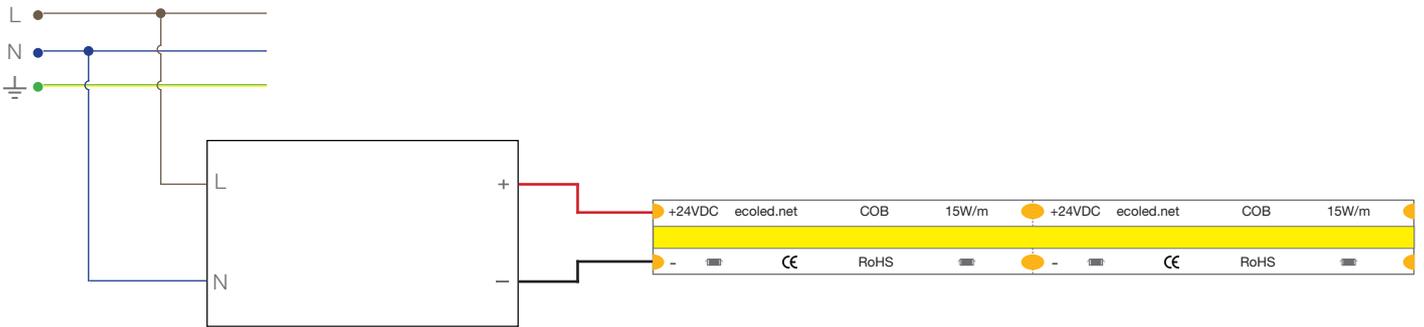


Diagram:

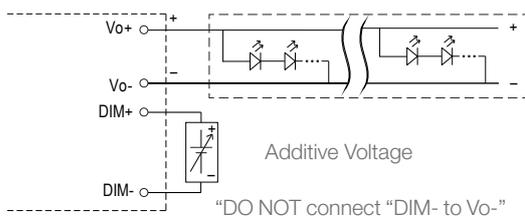


Dimming operation:

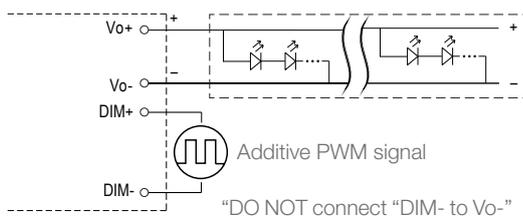
3 in 1 dimming function (for AB-Type):

- 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.)

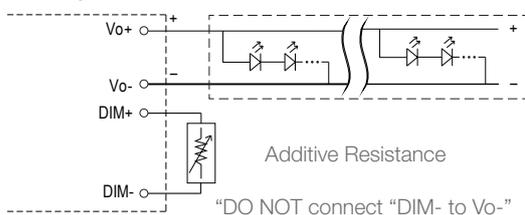
Applying additive 0 ~ 10VDC:



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

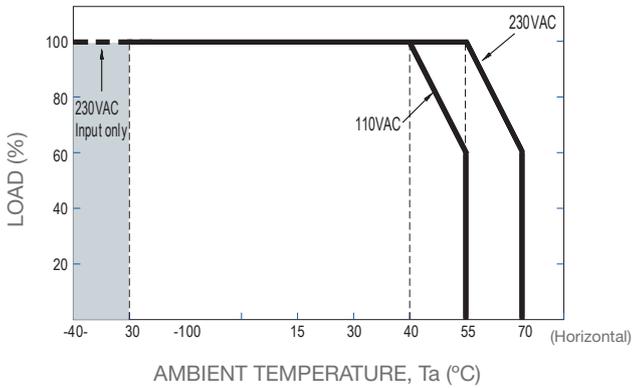


Applying additive resistance:

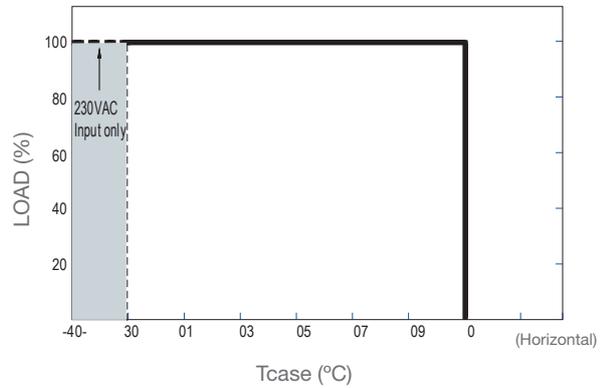


Type performance graphs

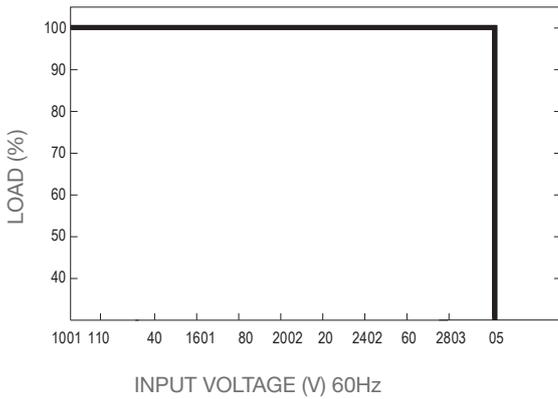
Output load vs Temperature



If 39.019 operates in constant current mode with the rated current, the maximum workable Ta is 55°C.

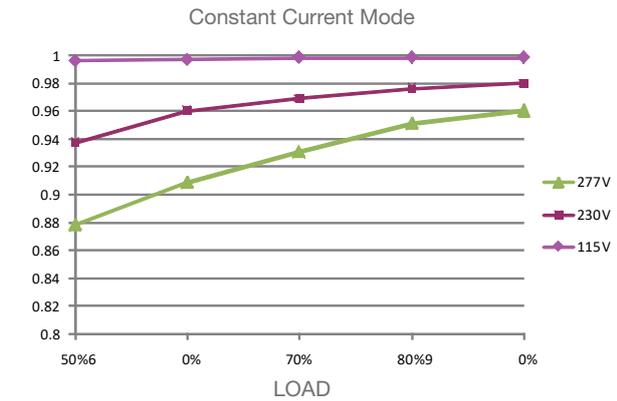


Static characteristic



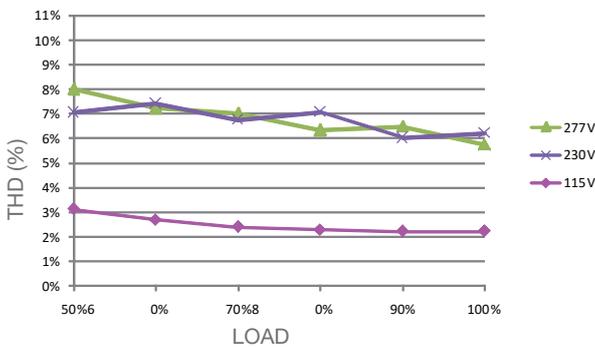
Power Factor (PF) characteristic

Tcase at 75°



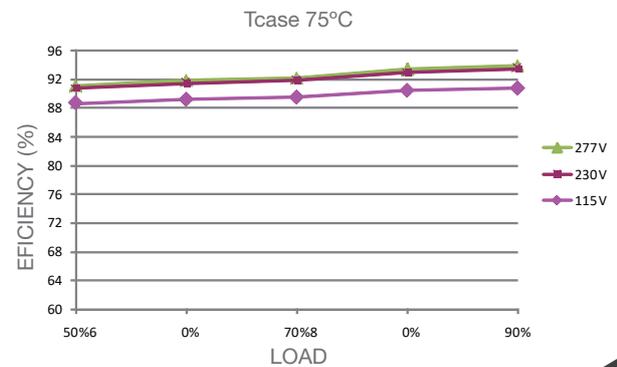
Total harmonic distortion (THD)

Tcase 75°C



Efficiency vs load

39.019 series possess superior working efficiency that up to 93% can be reached in field applications.





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

Applied standards CCC:

- GB 19510.1
- GB 19510.14

Applied standards CB:

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

Applied standards UL:

- UL 8750
- UL 879

Description

- Our Ref: 39.016 is a 150W LED AC/DC driver which features a constant power mode.
- It operates from 100~305VAC with different rated currents, ranging from 700mA to 12500mA.
- Thanks to its high efficiency of up to 93%, with the fan-less design, the entire series is able to operate at: -40°C ~ +90°C (case temperature via air convection).
- Its metal housing design and its IP67 ingress protection level makes it suitable for both indoor and outdoor applications. Moreover, its innovative capacity to adapt to the environment means its LEDS can offer reliable lighting for all kinds of areas and applications in almost anywhere in the world where LED luminaires may be installed.
- Our Ref: 39.016 complies with the latest version of IEC/61347/GB7000.1-2015 and UL international safety regulations.
- The output and dimming circuit are also completely in accordance with the new insulation standards to ensure the safety of both users and the luminaire system during installation.