

Ref: 38.040

Features:

- Class I protection
- High PF, high efficiency, low THD
- Flicker free $\leq 0.5\%$
- Indoor office lighting
- Decorative lighting
- Commercial lighting
- Degree of protection: IP20



Electrical output	Power (W)	63W max.
	Voltage (V)	33V - 42V
	Current	1500mA
	Ripple voltage	<1V
	Current tolerance	$\pm 5\%$
	Time to light	220V - 240V <0.5s
	Temperatue drift	$\pm 10\%$
	Line regulation	$\pm 5\%$
Electrical input	Line regulation	$\pm 5\%$
	Rated input volatge	AC: 220V-240V (max. AC: 200-264V); DC: 200-373V
	Frequency	47-63Hz
	Input current	0.4A max.
	Power factor	≥ 0.94 / 230V
	THD	$\leq 20\%$
	Efficiency	$\geq 89\%$ / 230V
	Input current	<0.3A @ 230Vac
	Inrush current (peak/duration)	I <60A/350uS - 230V
	Stand-by power	Pin $\leq 0.5W$ / 264V
Protection	No-load	max. output volatge (no-load voltage) 55V
	Short-circuit	hiccup mode (auto-recovery)
Environment	Working temperature	-30 / +50 °C
	Working humidity	20-90% RH, (no condensation)
	Storage temperature / humidity	-40 / +80°C (6 months under the class I environment); 10-90% RH (no condensation)
	Atmospheric pressure	86-103KPa
	Degree of protection	IP20
Other	Dimensions	245x30x21mm
	Guarantee	5 years



Assembly and safety information

Applied standards:

- EN55015
- EN61547
- EN61000-4-2
- EN61000-4-3
- EN61000-4-4
- EN61000-4-5
- EN61000-4-6
- EN61000-4-8
- EN61000-4-11

* See lifespan table



Measurements:

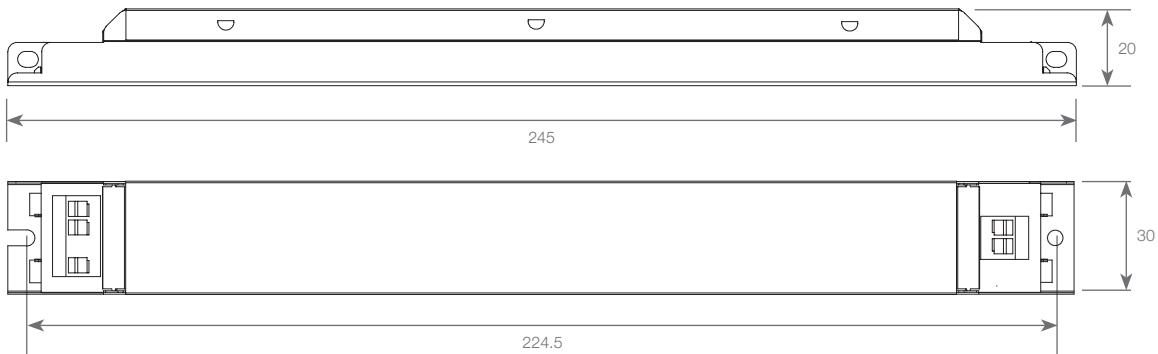
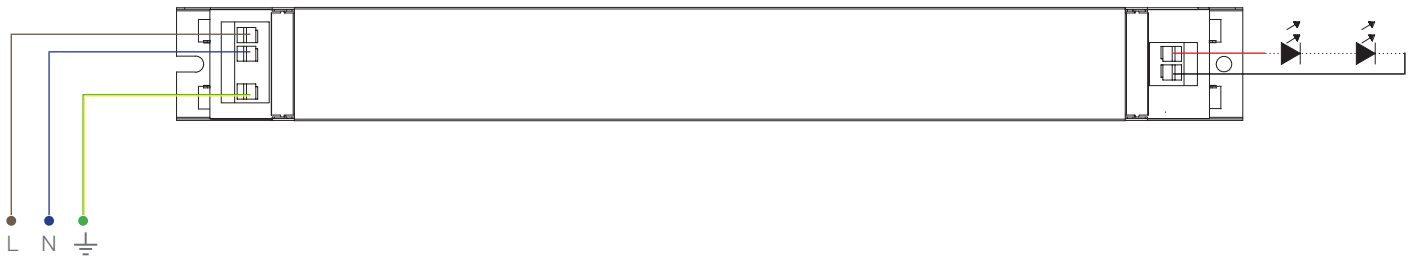
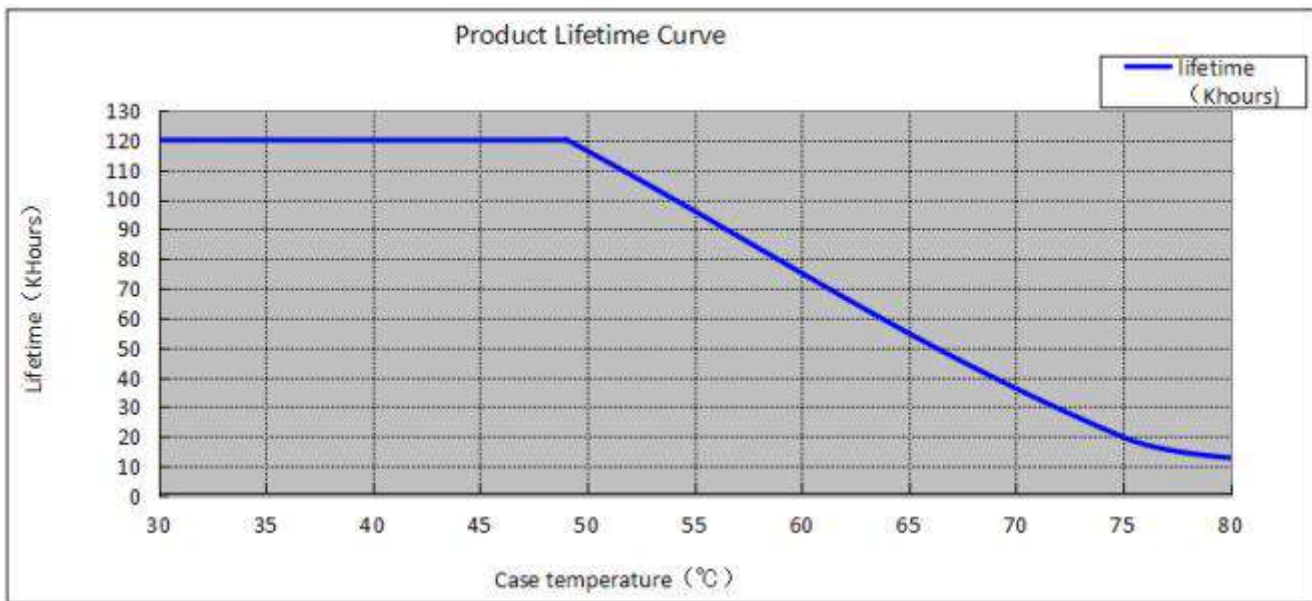


Diagram:



Lifetime curve

The curve below illustrates the driver's lifetime data when the led driver's max. case temperature reaches 40°C, 50°C, 60°C, 70°C, 80°C.



Ref: 38.048

Features:

- Class I driver, with FG, flicker free
- Standby power consumption <0.5W to turn off dimmable port
- Optional dimming methods
- Supporting multi-power supplies synchronous dimming connected in parallel
- Cooling by free air convection
- Degree of protection: IP20
- Suitable for indoor led lighting applications
- Built-in DALI dimming function



Electrical output	Power	50,4 / 59,4W
	Voltage (V)	200V - 240V
	DC current	1.2-1.65A
	DC voltage range	3-42V
	Voltage ripple & noise	≤350mV (Vpp)
	Current ripple & noise	≤50mA (RMS)
	Constant current ADJ. range	DIP S.W
	Constant current accuracy	±5%
	Line regulation	±5%
	Load regulation	±5%
	DALI port input current	≤2mA
1-10V port input current	<1mA (when DIM+ is shorted with DIM-)	
Electrical input	Input AC voltage range	180V - 264V
	Input DC voltage range	180V - 264V
	Frequency range	47-63Hz
	Power factor	PF >0.95 - 230V / full load, PF >0.90 - 230V / >30% load
	THD	THD <10% - 230V / full load, THD <20% - 230V / >30% load
	Efficiency	90%
	Standby power	<0.5W / 230Vac
	Input current	<0.45A / 230Vac
	Inrush current	<30A, <0.12A ² S , Twidth=130us
Turn on delay	<0.5A - 230V	
Protection	Short circuit	recovers automatically after environment temperature declines
	Max output voltage	50V
	Over temperature	automatic recovery after fault condition is removed
Environment	Operation temperature	-20°C / +60°C
	Operation humidity	10-90% RH, non-condensing
	Storage tempera-ture/humidity	-40°C / +80°C, 5-95% RH
	Degree of protection	IP20
	Vibration	10 ~ 500Hz, 5G 12min. / 1cycle, period for 72min. each along X,Y,Z axes
	Tc	Tc=90°C (Ta=60°C)
	MTBF	500000h, MIL - HDBK - 217F (25°C)
Other	Dimensions	355x30x21mm
	Guarantee	5 years



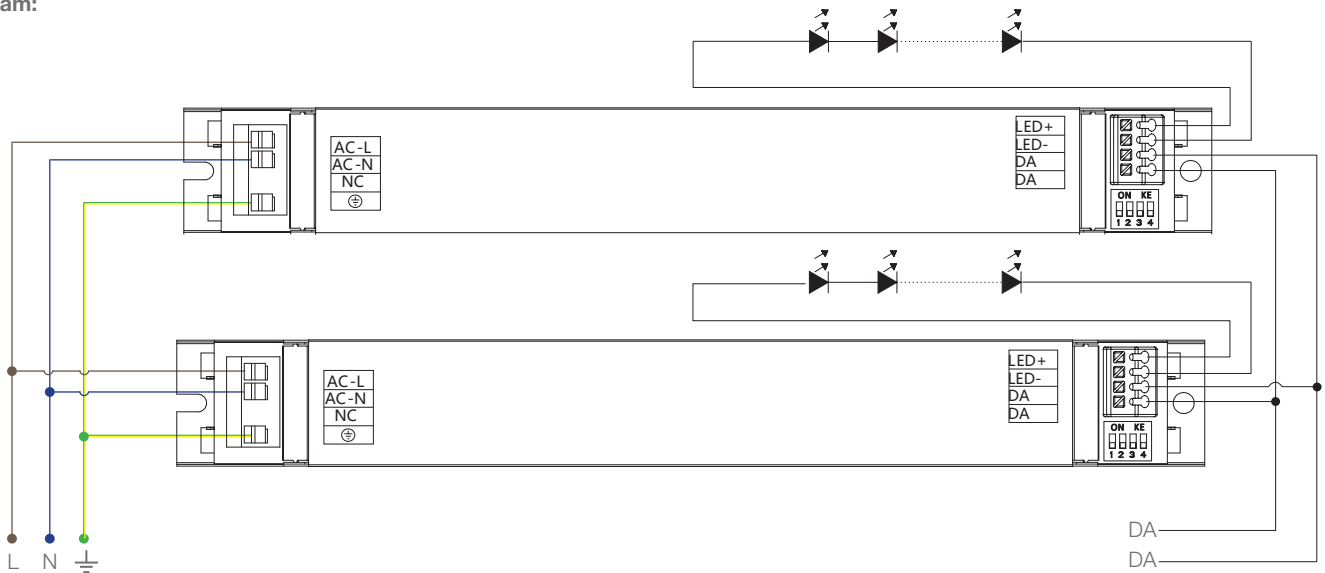
* See lifespan table



Measurements:



Diagram:



Note:

- Standard DALI control line voltage range: 9.5V to 22.5V, type 16V.
- The two DALI control lines are polarity-reversible.
- Max. 64 DALI drivers per DALI control line.
- The maximum distance length of the DALI control line is 300m at 2x1.5mm².
- DALI bus can be wired together with any mains voltage cables, but separate wiring is recommended.

Please refer to the table below

Cable size	Distance
2x0.50mm ²	max.100m
2x0.75mm ²	max.150m
2x1.00mm ²	max.200m
2x1.50mm ²	max.300m

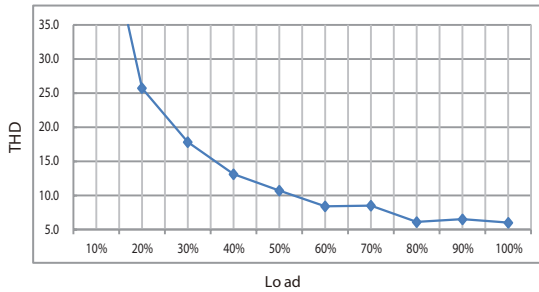
Hot plug-in protection function:

- In the following two cases, the led driver will automatically turn off the output to protect the led:
 1. When the driver is powered on first and the led is connected later.
 2. When the driver is powered on, disconnect and connect again.
- The led can be activated in two ways:
 1. Through the AC input port: disconnect the AC from the driver and power it again.
 2. Through DALI interface: send "OFF" command first, then send "MAX" command.

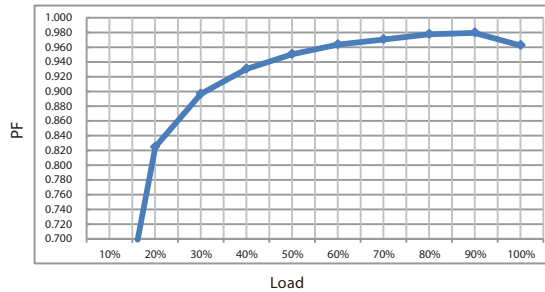


Electrical characteristics

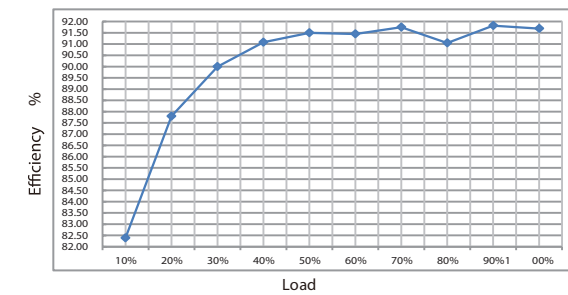
THD vs. load



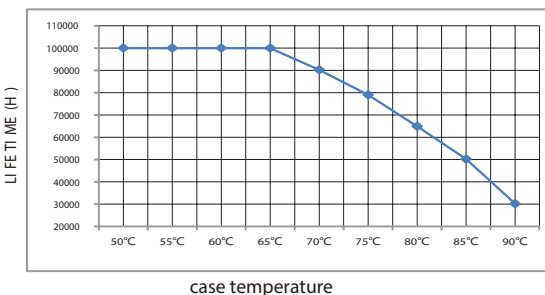
Power factor vs. load



Efficiency vs. load



Lifespan vs. case temperature



Assembly and safety information

Applied standards EMC:

- EN55015
- GB17743
- EN61000-3-2
- EN61000-3-3
- EN61000-4-2
- EN61000-4-3
- EN61000-4-4
- EN61000-4-5
- EN61000-4-6
- EN61000-4-8
- EN61000-4-1

Applied standards SAFETY:

- EN61347-1/2-13
- GB19510.1/14
- EN62384
- IEEE1789
- IEC62386-101
- IEC62386-102
- IEC62386-207