

L05060 1-10V dimmable LED Driver 100W

Features

The L05060 LED Driver is a 100Watt LED driver with adjustable maximum current setting from 350mA to 2800mA.

A 1-10V / 100KΩ LOG potentiometer dimming input.

A 47KΩ NTC input and a 12Vdc fan output.

Extremely low Inrush current of 2xI nominal

Specifications

System input voltage nominal	115Vac or 240Vac	
System input voltage range	115-240Vac	
System input frequency	50/60 Hz	
Maximum Inrush current	2 x I nominal	
System input power	240Vac: 110VA	115Vac: 80VA
Output current	350-2800mA Stabilized adjustable current source.	
Output voltage range	20Vdc min. - 60Vdc max.	
Driver efficiency	92%	
Power factor	0.98 @ 230Vac	0.99 @ 115Vac
Nominal line current	240V: 450mA	115V: 690mA
Output power	240V: 100 Watt	115V: 60 Watt @ 2A
LED voltage versus current	Input Voltage 240V 300mA 60V Max. 1667mA U _r 60 Max. 2800mA U _r 35V Max.	Input Voltage 115V 300mA U _r 60V Max. 1000mA U _r 60V Max. 2800mA U _r 21V Max.
Dimmer type	1-10V or potentiometer (100K log)	
Open circuit voltage	Max 65Vdc, switching on and off every second. (retry testing if a led is present).	
Fan voltage/power	12V/ 2.5W	
NTC sensor specification	47k (example 47K TT4-47KC3H-1-1-500-END , Lumotech part number 072783)	
Short circuit protection	Yes	
Open circuit protection	Yes	
Overvoltage protection	Yes	
Transformer Thermal protection	Yes, against overheating.	
Load voltage setting time	1 second	
Output current overshoot	No	
Output isolation	Yes, SELV EQ	
Ambient temperature range (Ta)	-25°C to +50°C	
Leads primary	0.5mm ² – 1.5 mm ²	
Leads secondary	LED connection 0.5mm ² – 1.5 mm ² / Other connections 0.2 mm ² – 1.5 mm ²	
Lead connection method	Clamp connector	
Weight	500 gram	
Case colour	Grey	
Maximum case temperature (Tc)	≤ 80° C	
Storage temperature range	-20°C to +50° C	
Case dimensions	212 x 76 x 46 mm (L x W x H)	
Complies with standards	EN61547, EN55015, EN61000-3-2, EN62384, EN61347-2-13, EN61347-1	
Min. current at min. dim level when using the Potentiometer	200 - 300mA	



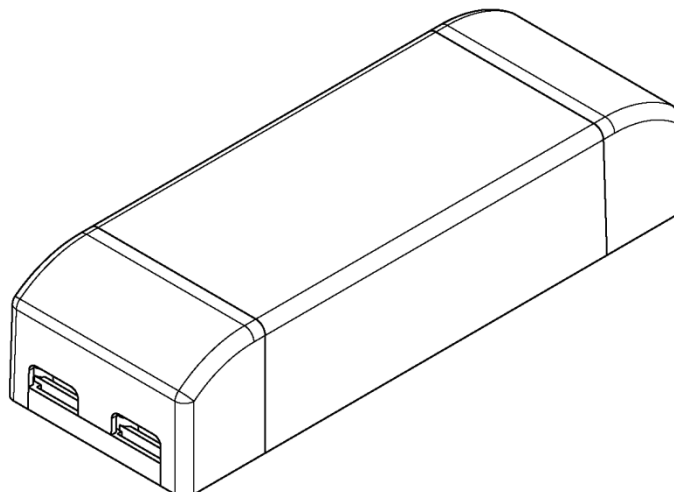
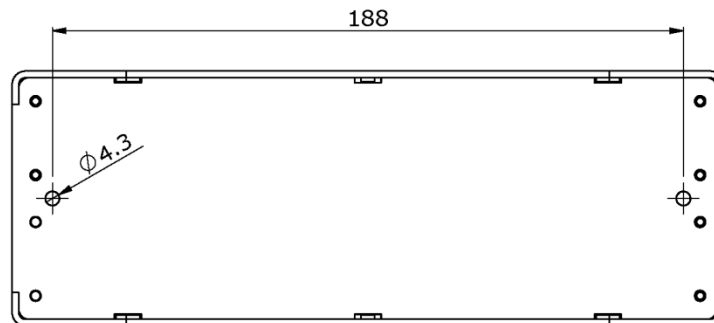
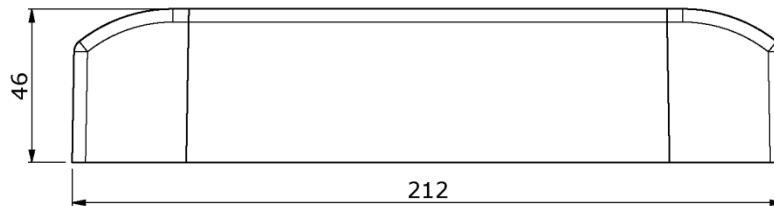
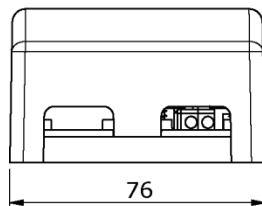
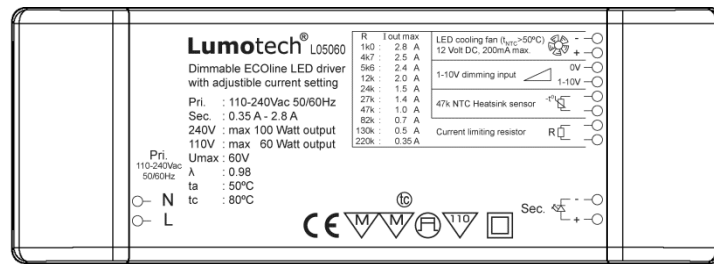
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Approvals:



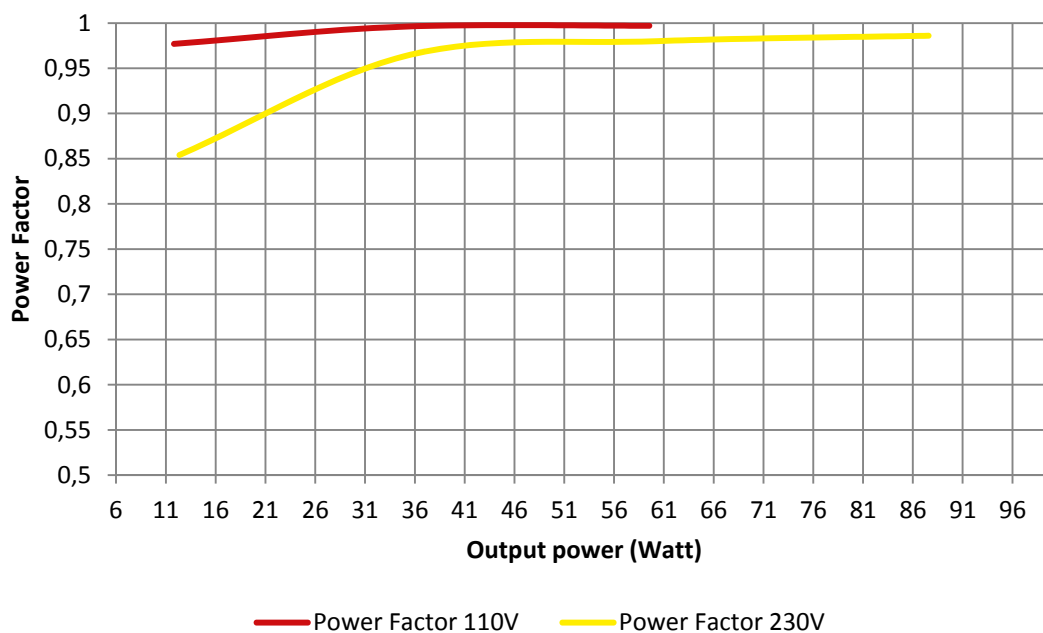
1. When the measured NTC temperature is higher than 55°C, the fan output voltage will be switched ON.
2. When the measured NTC temperature is lower than 50°C, the fan output will be switched OFF.
3. When the measured NTC temperature is higher than 70°C, the led output current will be dimmed linear, until the led output is OFF at 80°C.
4. When you want to use the fan continuously without using a temperature sensor, use an 8k2 Ohm resistor instead of the NTC sensor.

Technical drawings

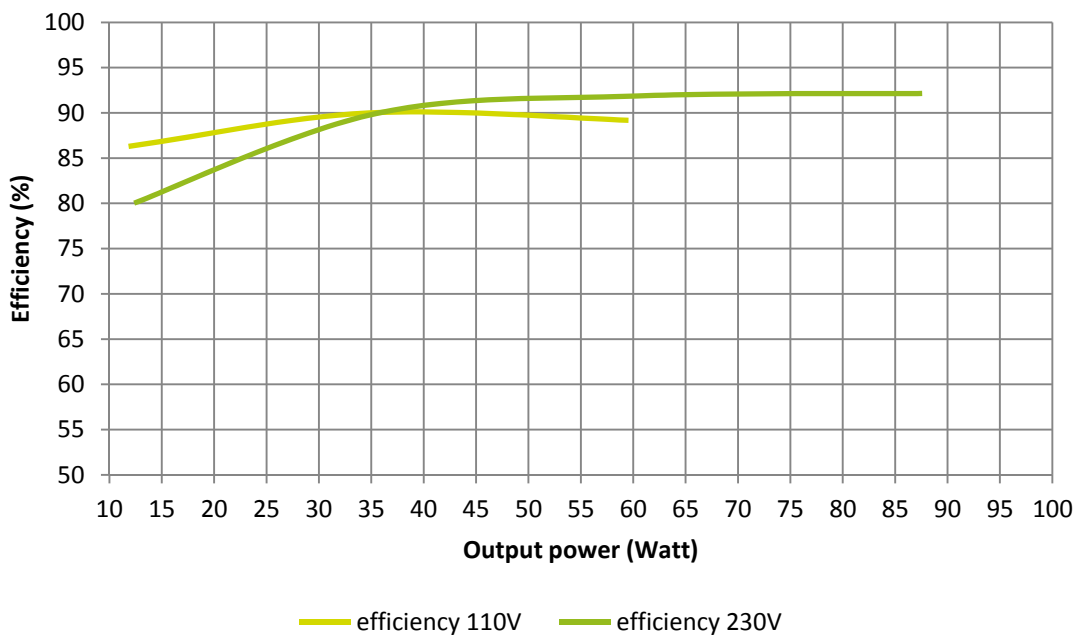


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Powerfactor @ Uout ± 50V



Efficiency @ Uout ± 50V



Efficiency and power factor are measured with a LED voltage of 50V @ 2A

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Ordering information

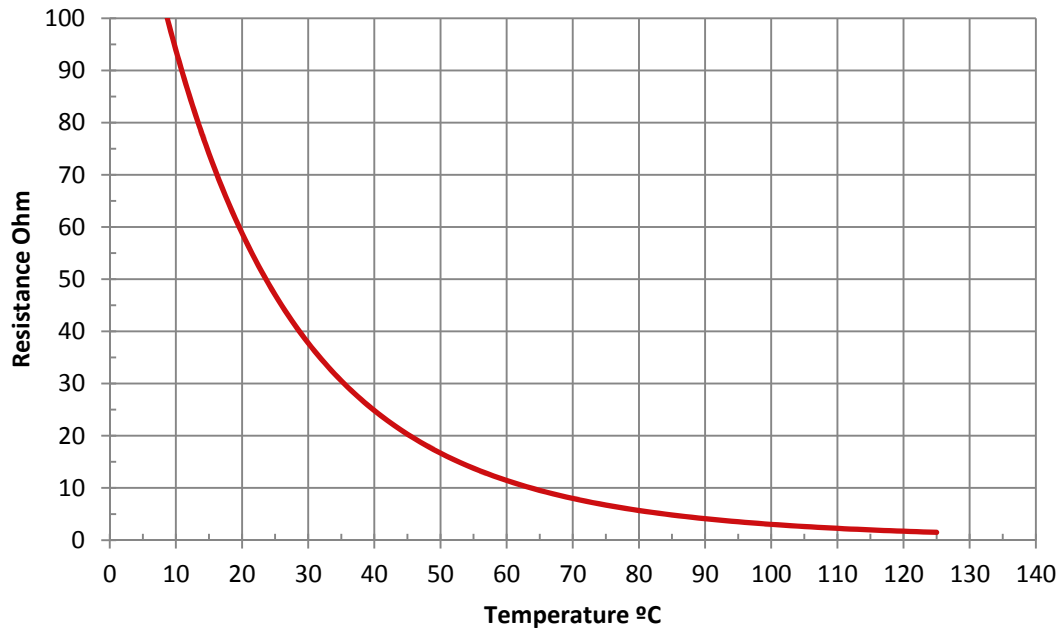
Article

L05060 1-10V dimmable LED Driver 100W / 60V
NTC sensor 47K TT4-47KC3H-1-1-500-END

Article number

L05060
072783

NTC 47K TT4-47KC3H-1-1-500-END



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