

LM7-200V24

LED power supply for 24 Vdc constant voltage

8.34 A (200 W) max., IP67, built-in installation, non-dimmable

Flicker-free according to IEEE 1789



Adjuster screw for output voltage



For using with long LED strips, the longer the LED strip, the more loss of output voltage. This may cause the LED strip to darken or flicker. In this case, the output voltage can be adjusted +/-10% with using adjusting screw on the housing.

Electrical Data

Rated input voltage	100...277 Vac	
Range of input voltage	90...305 Vac	
Rated input voltage (DC)	125...420 Vdc	
Range of input voltage (DC)	125...420 Vdc	
Mains frequency	50/60 Hz	
Power factor (λ)	≥ 0.95	Full Load
	≥ 0.9	70...100% Load
Input current	≤ 2 A	80% Rated Load, 120 Vac
	≤ 1.0 A	Rated Load, 230 Vac
	≤ 0.9 A	Rated Load, 277 Vac
No-Load Loss	< 0.5 W	
Inrush current	≤ 75 A	240 Vac 50Hz, full load
Leakage current	≤ 0.75 mA	277Vac 60Hz, UL8750
	≤ 0.7 mA	240 Vac 50 Hz, IEC61347-1
Output voltage	24 Vdc const.	
Output current	0...8.34 A	
Output power (nominal)	200 W max.	
Efficiency	94 %	230 Vac
	92 %	120 Vac
Life Time	$\geq 85,000$ h	≤ 75 °C case temperature
Dimmable	No	

Operating Condition

Operating Ambient Temperature (t_a)	-40...+50 °C	10%RH...100%RH Rated Load
	+50...+70 °C	10%RH...100%RH ref. Derating Curve
Max Case Temperature (t_c)	90 °C	
Protection class	I	
Type of protection	IP67	

Protection

Short Circuit Protection	Yes *	
Overl Current Protection	Yes *	120...160%
Over Voltage Protection	Yes *	110...150%
Over Temperature Protection	Yes *	90°C < T _c < 110°C

(*) The output shuts off and will be resumed, after problem is removed and led driver is restarted.

Standards & Certificates

Standards	EN 61347-1, EN 61347-2-13 EN 62493, EN62384 EN 61000-3-2, EN 61000-3-3 EN 55015, EN 61547
Approval marks	CE, UKCA
RoHS compliant	Yes

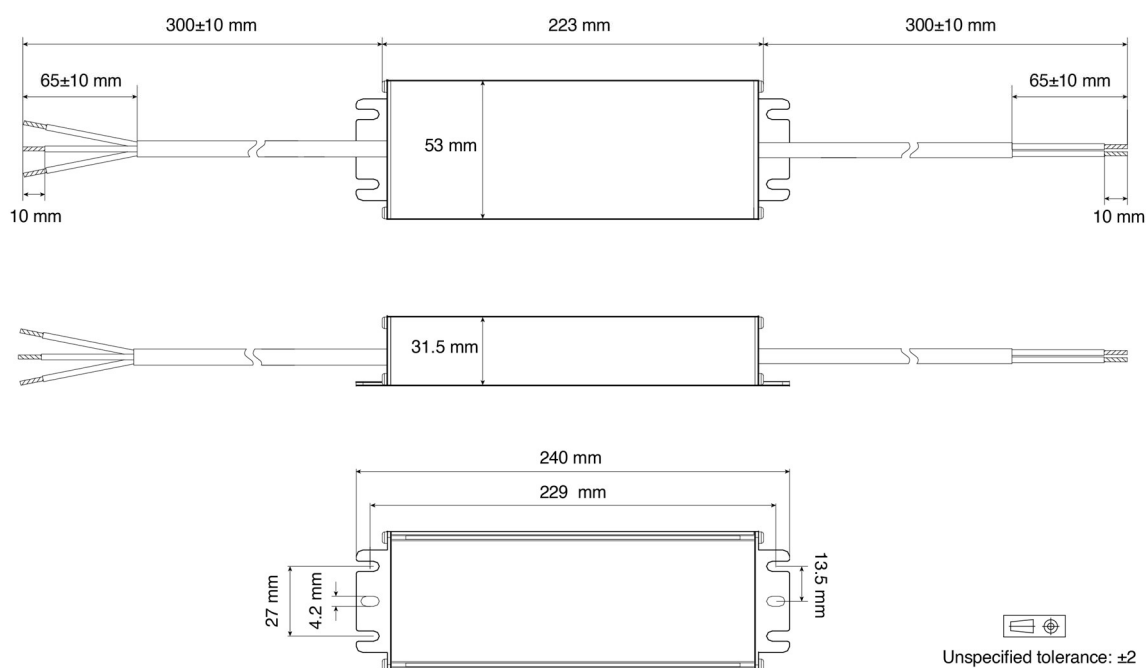
Installation

Cable length, input side	300 mm	
Cable length, output side	300 mm	
Cable cross-section, input side	3x 1.0 mm ²	
Cable cross-section, output side	2x 1.0 mm ²	
Cable preparation length, input side	10 mm tinned	
Cable preparation length, output side	10 mm tinned	
Circuit breaker (230V)	16A Typ B: 6 pc.	16A Typ C: 10 pc.

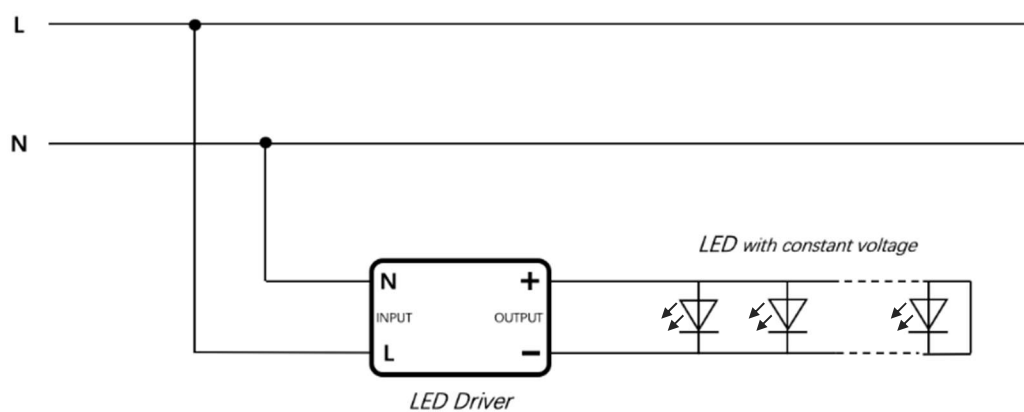
Dimension

AC INPUT (3 x 1.0 MM²)
 BROWN (L)
 BLUE (N)
 YELLOW / GREEN (⊕)

DC OUTPUT (2 x 1.0 MM²)
 BROWN (+)
 BLUE (-)



Connection



Safety Notice



Dangerous currents flow through the body when coming into direct or indirect contact with live components. This can result in electric shock, burns or even death. Work improperly carried out on current-carrying parts can cause fires.

- Disconnect the mains power supply prior to installation and/or disassembly!
- Permit work on the 230 V supply system to be performed only by specialist staff.