

# LM7-200V24

LED power supply for 24 Vdc constant voltage  
8.34 A (200 W) max., IP67



CE      **SELV IP67**





**HANDY FEATURE:**

DC-OUTPUT CAN BE ADJUSTED +/-10%  
TO COMPENSATE EVENTUAL VOLTAGE  
DROP IN LONG CABLES BETWEEN THE  
POWER SUPPLY AND LEDSTRIP.

## Electrical Data

<b>Input Voltage (rated)</b>	100...277 Vac / 125...420 Vdc	
<b>Input Voltage (operating)</b>	90...305 Vac / 125...420 Vdc	
<b>Input Frequency</b>	Rated 50/60 Hz, operating 47~63 Hz	
<b>Input Current</b>	≤ 2 A	@ 80% Rated Load, 120 Vac
	≤ 1,0 A	@ Rated Load, 230 Vac
	≤ 0,9 A	@ Rated Load, 277 Vac
<b>Input Power</b>	≤ 185 W	@100 Vac, 80% Load
	≤ 230 W	@176 Vac, Full Load
<b>Output Voltage</b>	24 Vdc const.	
<b>Output Current</b>	0..8.34 A	
<b>Output Power (nominal)</b>	200.16 W max.	
<b>Power Factor (λ)</b>	≥ 0.95	@ Full Load
	≥ 0.9	@ 70-100% Load
<b>Efficiency</b>	≥ 94 %	@ 230 Vac
	≥ 92 %	@ 120 Vac,
<b>Total Harmonic Distortion (THD)</b>	< 10%	@ 115 Vac 70%-100% Load
	< 10%	@ 230 Vac 70%-100% Load
	< 15%	@ 277 Vac 70%-100% Load
<b>Leakage Current</b>	≤ 0.75 mA	@ 277 Vac 60 Hz, UL8750
	≤ 0.7 mA	@ 240 Vac 50 Hz, IEC61347-1
<b>Standby Power</b>	< 0.5 W	
<b>Inrush Current</b>	≤ 75 A	@ 240 Vac 50Hz, 90°phase, full load, cold start-up, 50%I <sub>pk</sub> ~50% I <sub>pk</sub> , duration <0.8 mS
<b>Quantity 16A Breaker</b>	6 pcs 16A type B	@ 230 Vac
	10 pcs 16A type C	@ 230 Vac
<b>Lightning Surge</b>	6KV line-line 6KV line-earth	
<b>Ripple Voltage</b>	< 1% (V <sub>max</sub> -V <sub>min</sub> )/(V <sub>max</sub> +V <sub>min</sub> )	
<b>Voltage Accuracy</b>	± 2%	
<b>Line Regulation</b>	± 1%	
<b>Load Regulation</b>	± 2%	
<b>Mean Time Between Failures (MTBF)</b>	≥ 250.000 h	≤ 75 °C case temperature
<b>Life Time</b>	≥ 85.000 h	≤ 75 °C case temperature

## Operating Condition

<b>Operating Ambient Temperature (ta)</b>	-40...+50 °C 50...+70 °C	@ 10%RH~100%RH Rated Load @ 10%RH~100%RH ref. Derating Curve
<b>Operating Case Temperature for Safety Max Case Temperature (tc)</b>	-40...+90 °C 90 °C	@ 5%RH~100%RH
<b>Operating Case Temperature for Warranty</b>	-40...+75 °C	@ 10%RH~100%RH
<b>Storage Temperature</b>	-40...+85 °C	@ 5%RH~100%RH
<b>Protection class</b>	Class I	
<b>Type of protection</b>	IP67	

## Protection

<b>Short Circuit Protection</b>	Hiccup, Auto recovery*	
<b>Overl Current Protection</b>	Hiccup, Auto recovery*	@ 120...160%
<b>Over Voltage Protection</b>	Hiccup, Auto recovery*	@ 110...150%
<b>Over Temperature Protection</b>	Hiccup, Auto recovery*	90°C < Tc < 110°C

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

## Standards & Certificates

<b>Standards (LVD)</b>	EN 61347-1:2015, EN 61347-2-13:2014/A1:2017 UL8750
<b>Standards (EMC)</b>	EN 61000-3-2:2014, EN 61000-3-3:2013 EN 61000-4-2,3,4,5,6,8,11 EN 55015:2013/A1:2015, EN 61547:2009
<b>Performance</b>	EN 62384
<b>Approval marks</b>	CE
<b>RoHS compliant</b>	Yes

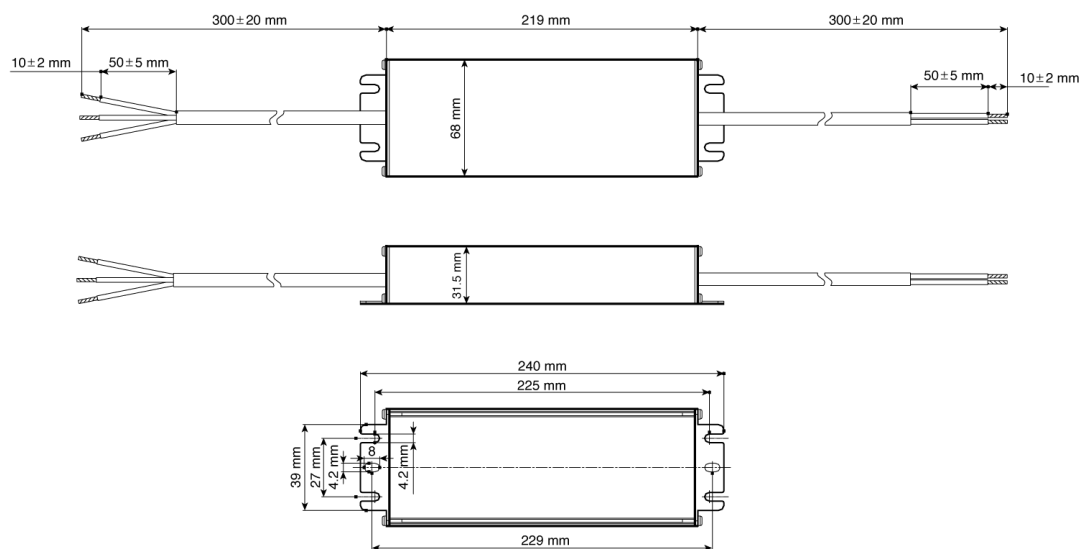
## Installation

<b>Cable length, input side</b>	300 mm
<b>Cable length, output side</b>	300 mm
<b>Cable cross-section, input side</b>	3x 18AWG (about 1mm <sup>2</sup> )
<b>Cable cross-section, output side</b>	2x 18AWG (about 1mm <sup>2</sup> )
<b>Cable preparation length, input side</b>	10 mm tinned
<b>Cable preparation length, output side</b>	10 mm tinned

## Dimension

AC INPUT (3 x 1.0 MM<sup>2</sup>)  
 BROWN (L)  
 BLUE (N)  
 YELLOW / GREEN (⊕)

DC OUTPUT (2 x 1.0 MM<sup>2</sup>)  
 BROWN (+)  
 BLUE (-)



## Derating Curve

