

## RS PRO LED Drivers

- AC/DC conversion
- Constant voltage design
- European AC input
- Protections: short circuit / over current / over voltage
- Cooling by free convection
- Isolation class II
- Class 2 power unit
- Fully encapsulated with IP67 level



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RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

## Product Description

Popular application:

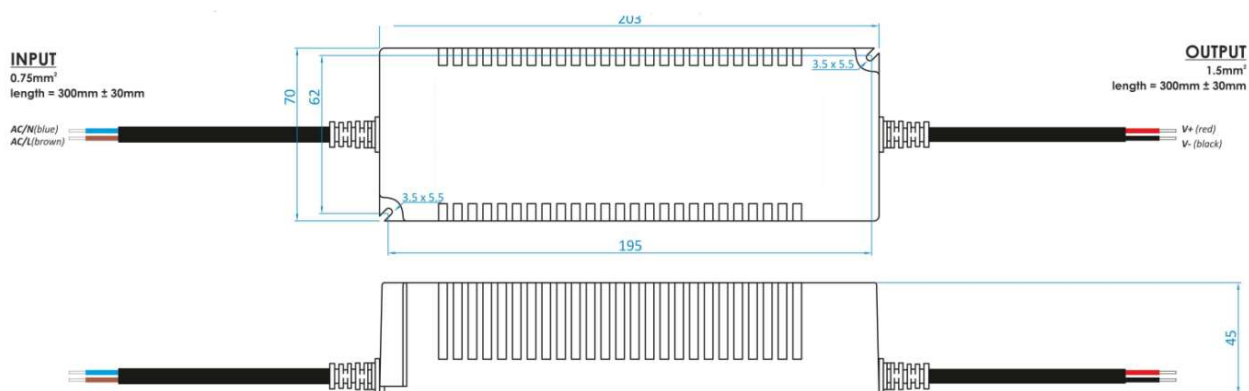
- DC:12V, 24V electronic systems
- 3D signage
- LED strips
- Furniture lighting
- POS systems
- Decorative lighting

## General Specifications

Working temperature	-20°C ÷ 70°C (refer to derating Curve)
Working humidity	20 ÷ 90% RH non-condensing
Storage temp. and humidity	-40°C ÷ 80°C, 10-95% RH non-condensing
Temperature coefficient	+/- 0,03% / °C (0°C ÷ 50°C)
Vibration	10 ÷ 500MHz, 2G, 10min / cycle period for 60min each along X,Y,Z axes

## Mechanical Specifications

Dimensions	203 x 70 x 45mm (L x W x H)
Weight	1,15kg/pcs



### Electrical Specifications

OUTPUT		
	0122231	0122221
Rated voltage	12V	24V
Rated current	12.5A	6A
Current range	0÷12.5A	0÷6A
Rated power	150W	144W
Line regulation	+/- 1%	
Load regulation	+/- 2%	
Tolerance	+/- 3%	
Ripple & noise (max)	300mV <sub>p-p</sub>	400mV <sub>p-p</sub>
Setup, rise time	500ms, 50ms/230Vac at full load	
Hold up time	18ms/230Vac at full load	
INPUT		
Voltage range	180 ÷ 277Vac; 254 ÷ 390Vdc	
Frequency range	47 ÷ 63Hz	
Efficiency (typ.)	92%	89%
AC current (typ.)	1,7A / 230Vac	
Inrush current (typ.)	50A/230Vac	
Leakage current (max.)	0,25mA / 240Vac	

### Protection Category

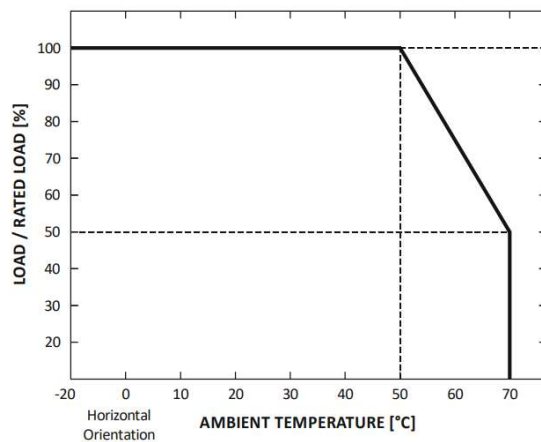
Over current	Range 110 ÷ 180% rated current	
	Type: hiccup mode, auto-recovery	
Short circuit	Type: hiccup mode, auto-recovery	
Over voltage	18 ÷ 30V	27 ÷ 40V
	Type: shut-off, auto-recovery	

## Approvals

Safety standards	Compliance to EN61327-1, EN61347-2-13, IP67
Withstand voltage	I-P/O-P: 3kV ac
Isolation resistance	I-P/O-P: 100M $\Omega$ /500Vdc/25°C/70%
EMC emission	Compliance to EN55015
EMC immunity	Compliance to EN61547; EN55024; EN61000-4-2, -3, -4, -5, -6, -8, -11
Harmonic current	Compliance to EN61000-3-3; EN61000-3-2

## Diagrams

⊙ DERATING CURVE



⊙ STATIC CHARACTERISTIC

