ADWS-100 series

100W Ultra short LED Power Supply

■ Features:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Over current / Over Temperature
- Cooling by free air convection
- Ultra short case design
- Fully encapsulated with IP67 level [5]

RoHS SELV CE IP67

◎ELECTRICAL SPECIFICATION

MODEL	ADWS-100-12	ADWS-100-24
OUTPUT		
Rated Voltage	12V	24V
Rated Current	8.3A	4.17A
Rated Power	99.6W	100.08W
Line Regulation	± 1%	
Load Regulation	± 1%	
Tolerance [3]	± 2%	
Ripple & Noise (max.) [2]	$1.5V_{p-p}$	
Setup, Rise Time [4]	2s, 70ms / 230VAC at full load	
Hold up Time	40ms / 230VAC at full load	
INPUT		
Voltage Range	170 ÷ 264VAC	
Frequency Range	47 ÷ 63Hz	
Efficiency (typ.)	86%	
AC Current (typ.)	0.87A / 230VAC	
PROTECTIONS		
Overload	Range: 110 ÷ 180% of rated current	
	Type: hiccup mode, auto-recovery.	
Short Circuit	Type: hiccup mode, auto-recovery.	
Over Temperature	Range: 110°C ± 10°C (detect by main IC)	
	Type: Shut down o/p voltage, re-power on to recover	
WORKING ENVIRONMENT		
Working Temperature	-30°C ÷ 50°C (Refer to Derating Curve)	
Working Humidity	20 ÷ 90% RH non-condensing	
Storage Temperature and Humidity	-40°C ÷ 80°C, 10 ÷ 99% RH non-condensing	

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SAFETY AND EMC REGULATIONS

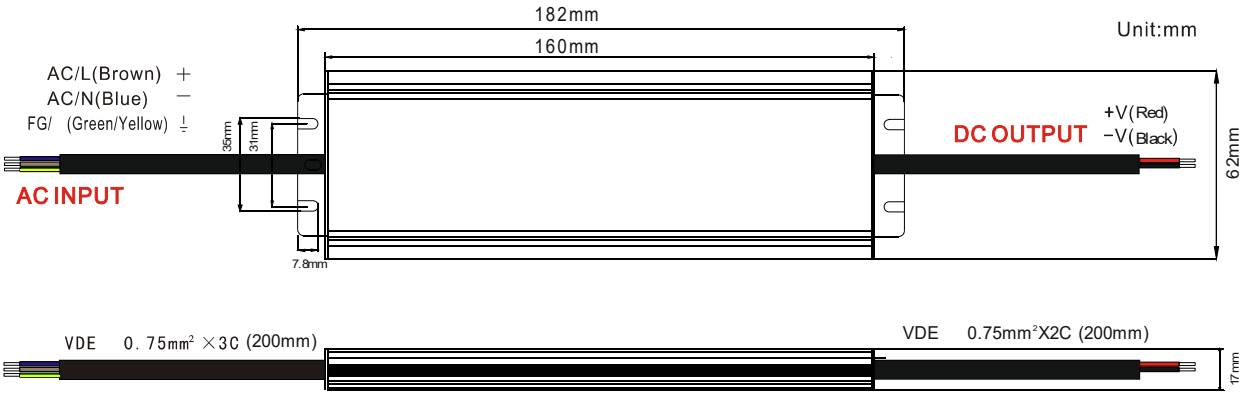
Safety Standards	Compliance to EN61347-1, EN61347-2-13, IP67
Withstand Voltage	I-P/O-P: 1.5kVAC; I-P/GND: 1.5kVAC
EMC Emission	Compliance to EN55015
EMC Immunity	Compliance to EN61547
Harmonic Current	Compliance to EN61000-3-2; EN61000-3-3

OTHERS

Dimensions	182 x 62 x 17mm (L x W x H)
Weight and Packing	0.4kg; 50pcs./ctn; ctn weight and dimensions: 11.8kg; 41 x 19.5 x 17cm
EAN code	5 902135 125403 5 902135 125403

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation and load regulation.
4. Setup and rise time is measured from 0 to 90% rated output voltage.
5. Suitable for indoor or outdoor use. Please avoid direct exposure to sunlight and immersion in water for over 30 minutes.
6. Power supply is considered as component not indented to apply by end-user. Power supply meets safety and EMC standards however the final equipment with power supply must be re-quality to comply with EMC Directives.

⊙MECHANICAL SPECIFICATION



⊙DERATING CURVE