

# AGV-16 series

16W Constant Voltage Power Supply



## ■ Features:

- Constant voltage design
- Universal AC input range
- Protections: Overload / Over voltage / Short circuit / Over Temperature
- Cooling by free air convection
  - Isolation class II
- Double insulation of Input and output wires
  - IP40 Protection level

tc: 90°C  
ta: 40°C  
CONSTANT VOLTAGE



## ⊙ ELECTRICAL SPECIFICATION

<b>MODEL</b>	<b>AGV-16-12</b>
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### OUTPUT

<b>Rated Voltage</b>	12V
<b>Rated Current</b>	1.33A
<b>Current Range</b>	0 ÷ 1.33A
<b>Rated Power</b>	15.96W
<b>Line Regulation</b>	± 1%
<b>Load Regulation</b>	± 2%
<b>Tolerance [3]</b>	± 3%
<b>Ripple &amp; Noise (max.) [2]</b>	120mV <sub>p-p</sub>
<b>Setup, Rise Time [4]</b>	600ms, 10ms / 230VAC at full load
<b>Hold up Time (typ.)</b>	30ms / 230VAC at full load

### INPUT

<b>Voltage Range</b>	90 ÷ 264VAC; 127 ÷ 370VDC					
<b>Frequency Range</b>	47 ÷ 63Hz					
<b>Efficiency (typ.)</b>	83%					
<b>AC Current (typ.)</b>	0.33A / 115VAC, 0.18A / 230VAC					
<b>Inrush Current (typ.)</b>	31A / 230VAC; T <sub>WIDTH</sub> (50% peak) = 152μs					
<b>Max. No. Of PSU on Circuit Breaker</b>	B10	B16	C10	C16	D10	D16
	19	30	32	51	50	80
<b>Leakage Current (max.)</b>	0.25mA / 240VAC					

### PROTECTIONS

<b>Overload</b>	Range: 110-150% rated power
	Type: hiccup mode, auto-recovery.
<b>Short Circuit</b>	Type: hiccup mode, auto-recovery.
<b>Over Voltage</b>	Range: 20-25V
	Type: hiccup mode, auto-recovery.

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## WORKING ENVIRONMENT

<b>Working Temperature</b>	-10°C ÷ 70°C (refer to Derating Curve), ta: 40°C; tc: 90°C
<b>Working Humidity</b>	20 ÷ 90% RH non-condensing
<b>Storage Temperature and Humidity</b>	-30°C ÷ 80°C, 10 ÷ 95% RH non-condensing

## SAFETY and EMC REGULATIONS

<b>Safety Standards</b>	Compliance to EN 61347-1, EN 61347-2-13
<b>Withstand Voltage</b>	IN/OUT: 3kVAC
<b>Isolation Resistance</b>	IN/OUT: 100MΩ/500VDC/25°C/70%
<b>EMC Emission</b>	Compliance to EN55015
<b>EMC Immunity</b>	Compliance to EN61547
<b>Harmonic Current</b>	Compliance to EN61000-3-3; EN61000-3-2

## OTHERS

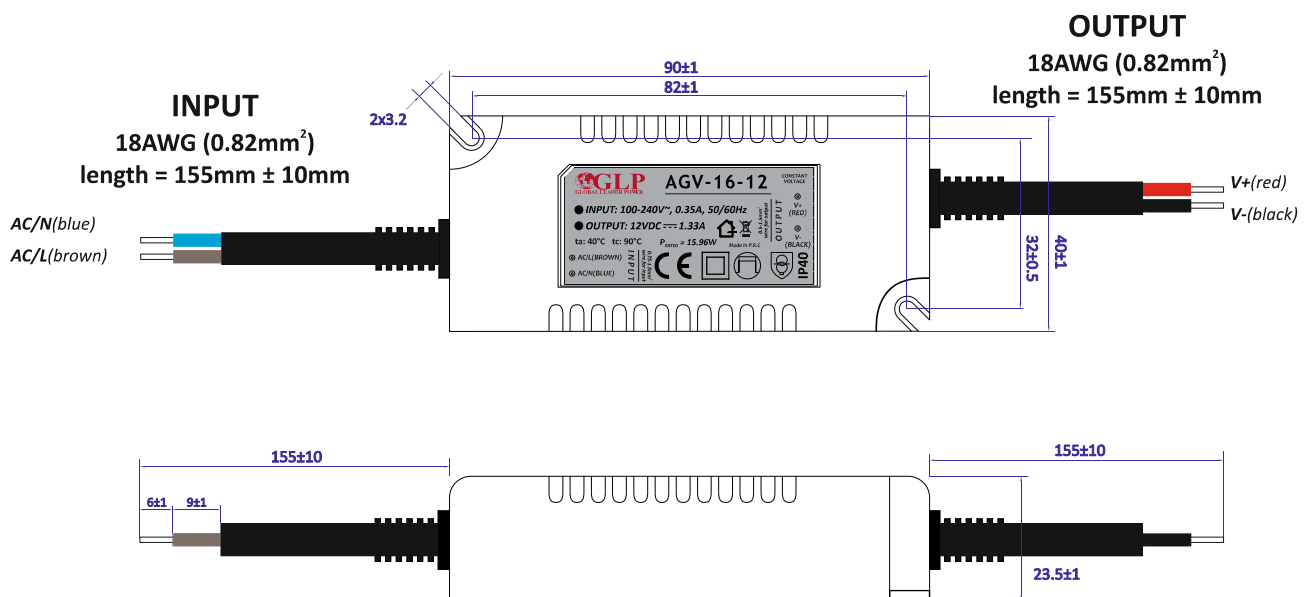
<b>DIMENSIONS</b>	90 x 40 x 23.5mm (L x W x H)
<b>Weight and Packing</b>	90g; 150pcs./ctn; ctn weight and dimensions: 15kg; 41 x 27 x 27cm

EAN Code



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. 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

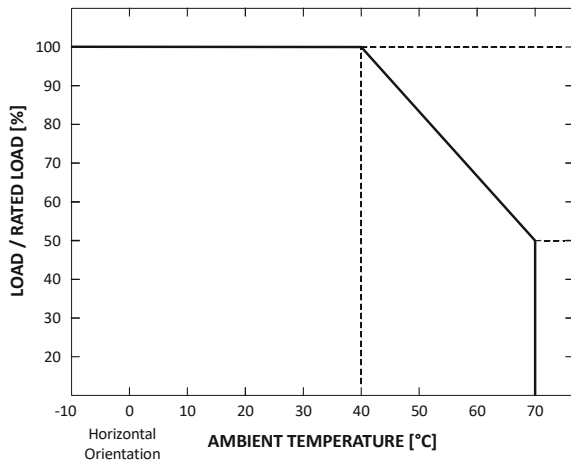


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© DERATING CURVE



© STATIC CHARACTERISTIC

