

# AGV-12 series

12W 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

MODEL	AGV-12-12					
<b>OUTPUT</b>						
Rated Voltage	12V					
Rated Current	1A					
Current Range	0 ÷ 1A					
Rated Power	12W					
Line Regulation	± 1%					
Load Regulation	± 2%					
Tolerance [3]	± 3%					
Ripple & Noise (max.) [2]	120mV <sub>p-p</sub>					
Setup, Rise Time [4]	3000ms, 15ms / 230VAC at full load					
Hold up Time (typ.)	30ms / 230VAC at full load					
<b>INPUT</b>						
Voltage Range	90 ÷ 264VAC; 127 ÷ 370VDC					
Frequency Range	47 ÷ 63Hz					
Efficiency (typ.)	79%					
AC Current (typ.)	0.28A / 115VAC, 0.15A / 230VAC					
Inrush Current (typ.)	13A / 230VAC; T <sub>WIDTH</sub> (50% peak) = 132μs					
Max. No. Of PSU on Circuit Breaker	B10	B16	C10	C16	D10	D16
	46	73	60	96	60	96
Leakage Current (max.)	0.25mA / 240VAC					

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## 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: 14-16V Type: hiccup mode, auto-recovery.
<b>Over Temperature</b>	140°C±10°C(detect on main control IC) Type: hiccup mode, auto-recovery.

## 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>	88g; 150pcs./ctn; ctn weight and dimensions: 15kg; 41 x 27 x 27cm

**EAN Code**



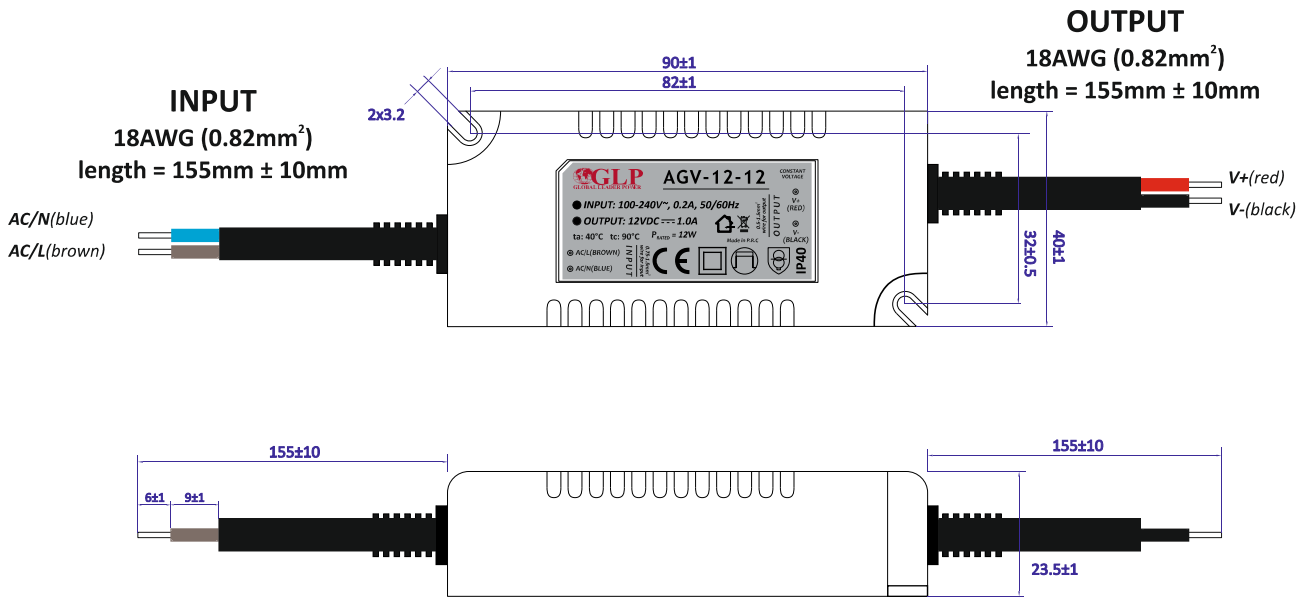
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation 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.

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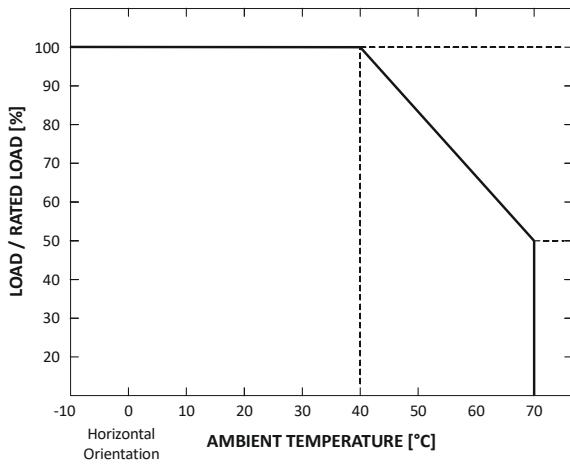
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## © MECHANICAL SPECIFICATION



## © DERATING CURVE



## © STATIC CHARACTERISTIC

