

A20Y series

Constant Voltage power supply for junction box 20W



■ Features:

- Constant voltage design
- Universal AC input range
- Protections: Overload / Short-circuit / Overvoltage / Over temperature
- Can be mounted in Fi = 60mm junction box
- IP66 protection class

IP66  

ELECTRICAL SPECIFICATION

MODEL	A1012Y	A1024Y
OUTPUT		
<i>RATED VOLTAGE</i>	12V	24V
<i>RATED CURRENT</i>	1.67A	0.83A
<i>CURRENT RANGE</i>	0 ÷ 1.67A	0 ÷ 0.83A
<i>RATED POWER</i>	19.97W	19.92W
<i>STABILISATION OF U_{OUT} IN RELATION TO CHANGES IN U_{IN}</i>	± 1%	
<i>STABILISATION OF U_{OUT} IN RELATION TO CHANGES IN I_{OUT}</i>	± 2%	
<i>TOLERANCE [3]</i>	± 5%	
<i>RIPPLE AND NOISE (MAX.) [2]</i>	240mV _{p.p}	480mV _{p.p}
<i>SETTLING TIME, RISE TIME [4]</i>	300ms, 20ms / 230VAC (full load)	
<i>HOLD TIME (TYP.)</i>	20ms / 230VAC (full load)	
INPUT		
<i>VOLTAGE RANGE</i>	90 ÷ 264VAC	
<i>VOLTAGE FREQUENCY RANGE</i>	47 ÷ 63Hz	
<i>EFFICIENCY (TYP.)</i>	83%	85%
<i>AC CURRENT (TYP.)</i>	0.25A / 230VAC; 0.45A / 115VAC	
PROTECTIONS		
<i>OVERLOAD</i>	Range: above 180%	
	Type: hiccup mode, auto-recovery.	
<i>SHORT CIRCUIT</i>	Type: hiccup mode, auto-recovery.	
<i>OVER VOLTAGE</i>	< 24V	< 48V
	Type: hiccup mode, auto-recovery.	
<i>OVER TEMPERATURE</i>	Type: shut-off, auto-recovery.	

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WORKING ENVIRONMENT

OPERATING TEMPERATURE	-20°C ÷ +50°C
OPERATING HUMIDITY	5 ÷ 95% relative humidity (non-condensing)
STORAGE TEMPERATURE AND HUMIDITY	-40°C ÷ 80°C, 5 ÷ 95% relative humidity (non-condensing)

SAFETY AND ELECTROMAGNETIC COMPATIBILITY STANDARDS

SAFETY STANDARDS	Compliance to EN61347-1; EN61347-2-13
WITHSTAND VOLTAGE	IN/OUT: 3.0kVAC; IN/GND: 1.5kVAC; OUT/GND: 0.5kVAC
EMC EMISSION	Compliance to EN55015
EMC IMMUNITY	Compliance to EN61547
HARMONIC CURRENT	Compliance to EN61000-3-2; EN61000-3-3

OTHER

DIMENSIONS	48.0±1 x 58±1 x 26.5±1mm (L x W x H)
WEIGHT	0.123kg; 100pcs./ctn; ctn weight and dimensions: 12.6kg; 50 x 26 x 31cm

A2012Y

A2024Y

EAN CODE



1. The specified parameters (unless otherwise stated) were measured for a supply voltage of 230VAC, rated load at an ambient temperature of 25°C.
2. Ripple and noise were measured for the 20MHz bandwidth using twisted test leads and 0.1µF and 47µF capacitors connected in parallel.
3. The tolerance expresses the max. divergence of the output voltage taking into account variations at switching, in relation to variations of the input voltage and in relation to variations of the load current.
4. The settling and rise time is measured in the range 0 ÷ 90% of the rated output voltage.
5. The power supply is a component not intended for installation by the end user. The power supply complies with safety and EMC standards, however the final device including the power supply must be tested again to verify compliance with the standards for the whole system.

MECHANICAL SPECIFICATION

