

# AD1024F series

20~24Watts, Single Output DIN Rail Power

- Output voltage: 5V, 12V, 24V, 48V
- Standard Operating Temperature: -20°C ~ 50°C
- -E model supports -40°C\* ~ 50°C



## OVERVIEW

Lantech AD1024F Power series is rigid and compact design for space saving and industrial applications. It supports power ready signal and ring diode circuit for redundant application as well as over-voltage, over-load

and short circuit protection. Attentive design to be snapped on DIN rail or wall mounted by bracket fits most of installation requirement. All models are RoHS compliant and meet with CE and UL 508 requirement.

## FEATURES & BENEFITS

- High power density
- Universal input range
- Convection cooled
- RoHS compliance
- 2 - year warranty
- Great reliability
- DIN rail / Wall bracket mounting solution
- Overvoltage protection
- Overload protection
- Short circuit protection
- -E model supports wide operating temperature

## SPECIFICATION

Input Voltage	110~240VAC
Input Frequency	47~63Hz
Input Inrush Current	22A/115VAC 44A/230VAC (Cold start)
Output Hold-up Time (Fullload@220VAC)	20mS Min
Output Temp. Coefficient	±0.04% / °C
Output Overvoltage Protection	Auto recovery
Output Overload Protection	Power limited
Output Short Circuit Protection	Auto recovery
Transient response (Load change 50% to 100%)	Voltage deviation: 5% Recovery time: 2mS
EMC Standards	EN 55011 Class B EN 55022 Class B EN 61000-4-2 Level 3 EN 61000-4-3 Level 3 EN 61000-4-4 Level 3

Safety Standards	EN 61000-4-5 Level 3 EN 61000-4-6 Level 3 EN 61000-4-8 Level 3 EN 61000-4-11 Level 3
Operating Temperature (Standard model)	-20°C ~ 50°C (-4°F ~ 122°F) ambient, derating each output at 2.5% per degree from 50°C ~ 70°C
Operating Temperature (-E model)	-40°C* ~ 50°C (-40°F ~ 122°F) ambient, derating each output at 2.5% per degree from 50°C ~ 70°C
Operating Humidity	Non-condensing, 5% ~ 95%RH
Vibration	Random vibration, 10Hz ~ 500Hz, 3axis
MTBF	100,000hrs Min. Per MIL-HDBK-217F, 25°C GB
Case Dimension	96(H)x64.5(D)x45(W)mm
Warranty	2 years

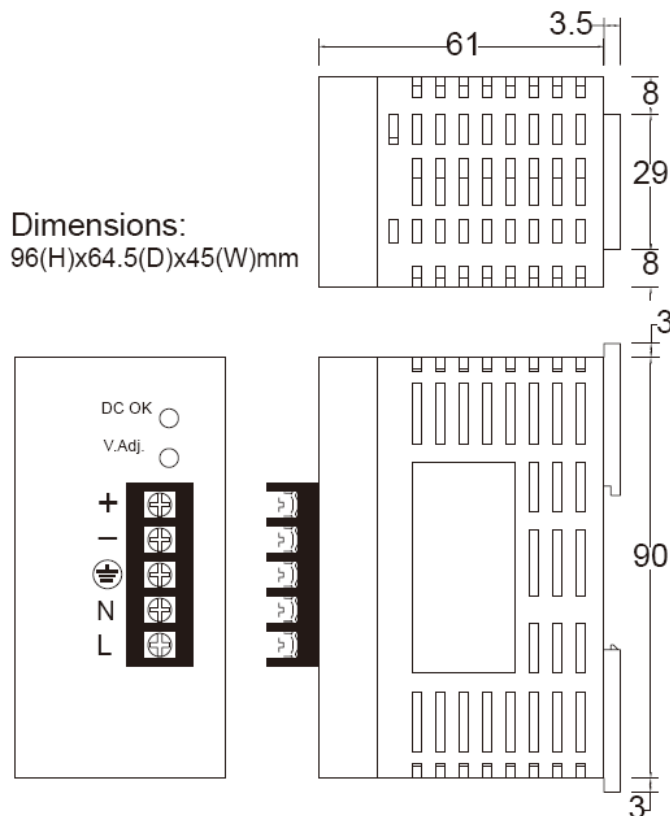
\*Note: Starting time of -E model is 1.5 to 2 seconds at -40°C

**OUTPUT SPECIFICATION**

Model	O/P voltage Adjustment	Loading (A)			Ripple Noise	Line Reg.	Load Reg.	Efficiency	Overvoltage Protection
		Min.	Rated	Max.					
AD1020-05F	+5VDC±10%	0A	4A	4A	50mVp-p	±1%	±1%	78%	7VDC Max
AD1024-12F	+12VDC±10%	0A	2A	2A	100mVp-p	±1%	±1%	80%	20VDC Max
AD1024-24F	+24VDC±10%	0A	1A	1A	150mVp-p	±1%	±1%	83%	40VDC Max
AD1024-24F-E	+24VDC±10%	0A	1A	1A	150mVp-p	±1%	±1%	83%	40VDC Max
AD1024-48F	+48VDC±10%	0A	0.5A	0.5A	250mVp-p	±1%	±1%	83%	60VDC Max

- Note:
1. Each output can supply up to maximum current, but total loading cannot exceed rated output wattage.
  2. Line regulation is measured from low line to high line at rated load.
  3. Load regulation is measured from 20% to 100% of rated load at 230VAC input.
  4. Ripple & Noise is measured by using a 0.1uF/630V metalized capacitor & a 47uF electrolytic capacitor parallel on the test point, at rated load and 230VAC input.
  5. Efficiency is measured at rated load and 230VAC input.

**DIMENSIONS (unit=mm)**



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