

AD1048FS Series

48Watts, Single Output



Dimensions: 75.5(D)x45(W)x96(H) mm

Features

- High power density
- Universal input range
- Convection cooled
- RoHS compliance
- 3 year warranty
- Great reliability
- DIN Rail / Wall bracket mounting solution
- Over voltage protection
- Overload protection
- Short circuit protection

Safety Standards



EN 60950 (Marking)



UL 508 (Certificate)
CSA 22.2 (Certificate)

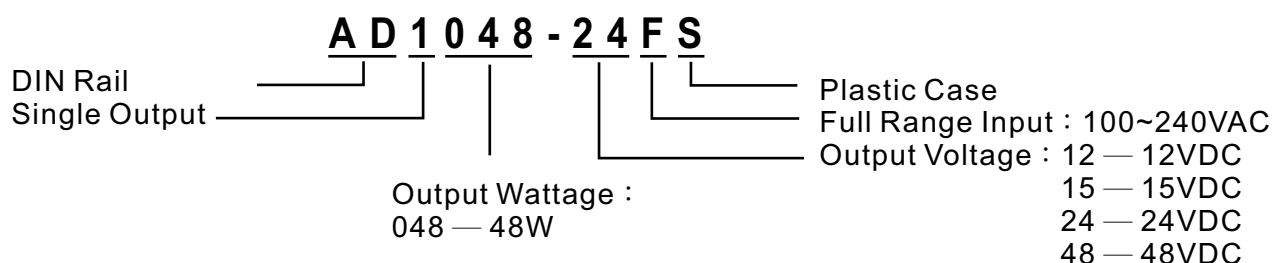
EMC Standards

EN55011	Class B
EN55022	Class B
EN61000-4-2	Level 3
EN61000-4-3	Level 3
EN61000-4-4	Level 3
EN61000-4-5	Level 3
EN61000-4-6	Level 3
EN61000-4-8	Level 3
EN61000-4-11	Level 3

Model List

Model	O/P Voltage Adjustment	Min.	Rated	Max.	Ripple Noise	Efficiency	Over Voltage Protection
AD1048-12FS	+12VDC±10%	0A	4.0A	4.0A	100mVp-p	80%	20VDC Max.
AD1048-15FS	+15VDC±10%	0A	3.0A	3.0A	150mVp-p	81%	20VDC Max.
AD1048-24FS	+24VDC±10%	0A	2.0A	2.0A	150mVp-p	83%	40VDC Max.
AD1048-48FS	+48VDC±10%	0A	1.0A	1.0A	250mVp-p	83%	60VDC Max.

Model Encoding



Website: <http://www.acro-powers.com/>
E-mail: service@acro-powers.com.tw
Tel: +886-2-22675015 Fax: +886-2-22674939

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ENGINEERING INC.

Specification

General		
Switching Frequency		66kHz
Isolation Voltage	Input-Output	3000VAC /4242VDC
	Input-FG	1500VAC/2121VDC
	Output-FG	500VAC/ 710VDC
Isolation Resistance		100MΩ when Input-Output @500VDC
Operating Temperature		-40°C~50°C ambient
Derating		2.5% per degree from 50°C to 70°C
Storage Temperature		-40°C to +85°C
Relative Humidity		5%~95% RH, Non-condensing.
Temperature Coefficient		±0.04% of output voltage per °C
MTBF		100,000hrs Min. Per MIL-HDBK-217F, 25°C GB
Attitude During Operation		2000m
Installation position		Vertical
Vibration		Random Vibration, 10~500Hz. 3 axise
Input		
Input Voltage		100~240VAC/120~370VDC
Input Frequency		47~63Hz
Inrush Current (cold start)		11A/115VAC 22A/230VAC
Rated Input Current		1A Max., Vi=100~240VAC
Leakage Current		Input-output 0.25mA, Input-FG 3.5mA, Vi=250VAC
Output		
Output Voltage accuracy		±1%
Minimun Load		0%
Line Regulation		±1%, measuring from low line to high line rated load
Load Regulation		±1%, measuring from 20% to 100% of rated load 230VAC input
Voltage Trim Range		±10%(Min.)
Rated Continuous Loading		4A@12VDC, 3A@15VDC, 2A@24VDC, 1A@48VDC
Hold Up Time		30mS Min., Full load@230VAC.
Turn On Time		300mS
Rise Time		10mS
Fall Time		35mS

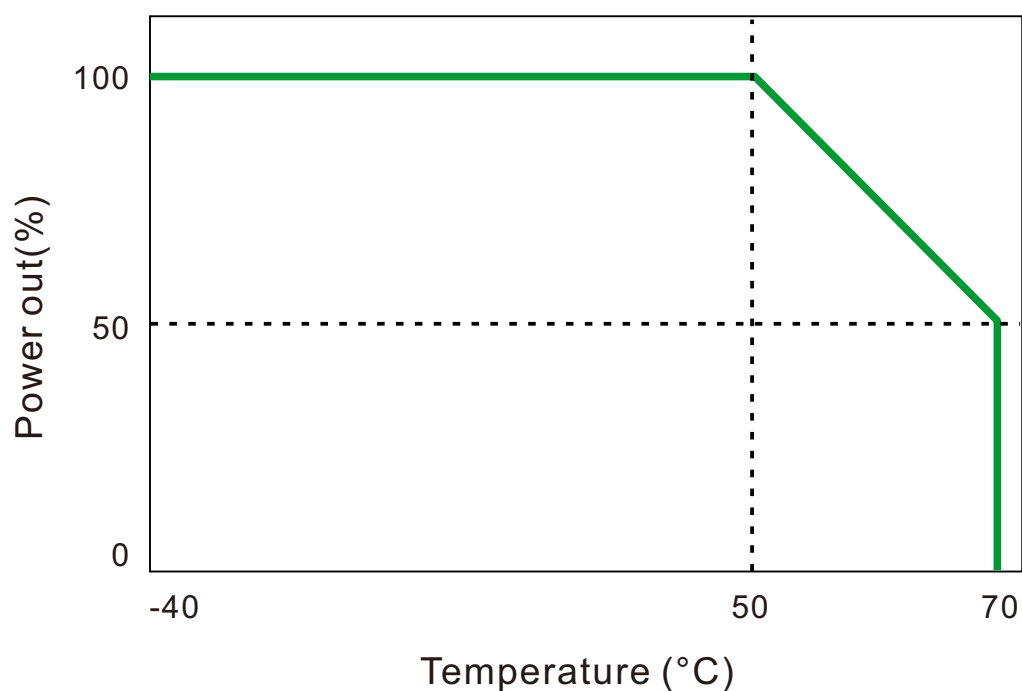
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Specification

Output		
Transient Response	Recovery Time	2mS, Load change 50% to 100%
	Voltage Deviation	5%, Load change 50% to 100%
Efficiency		See model list, measuring at rated load and 230VAC input
Ripple and Noise		See model list, measuring by using a 0.1 μ F/630V metalize capacitor and a 47 μ F electrolytic capacitor parallel on the test point, at rated load and 230VAC input.
Protection		
Input Fuse		2A/250V
Internal Surge Load Protection		Varistor, IEC6100-4-5
Degree of Protection		IP20
Short Circuit Protection		Autorecovery
Over Voltage Protection		Autorecovery
Rated Over Load Protection		150~250%
Overload protection		Power limited

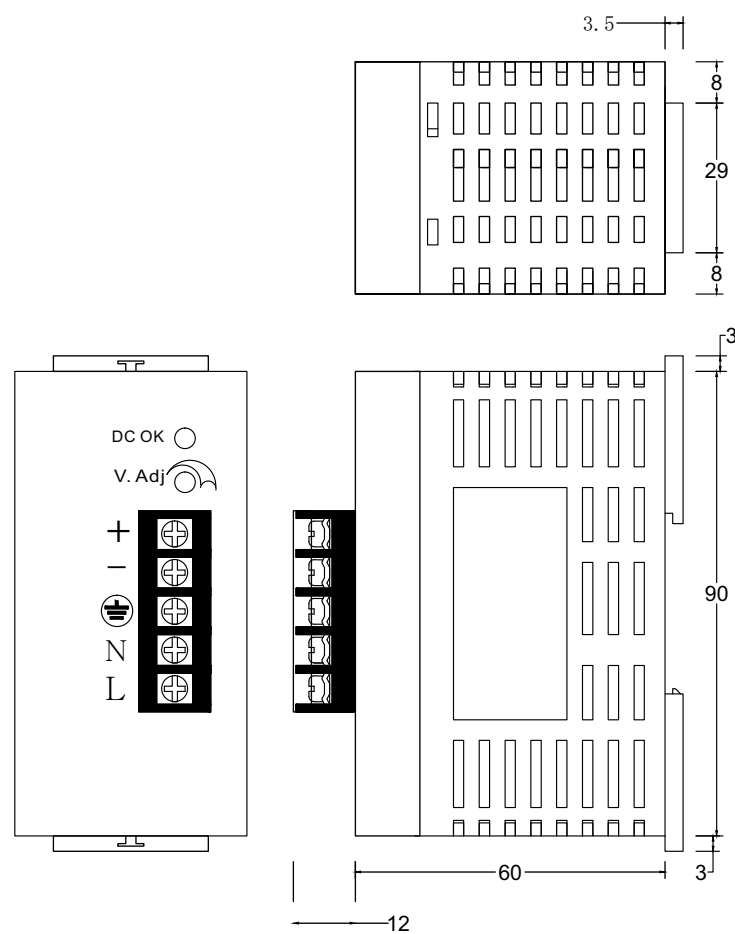
Derating Curve



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Mechanical Details

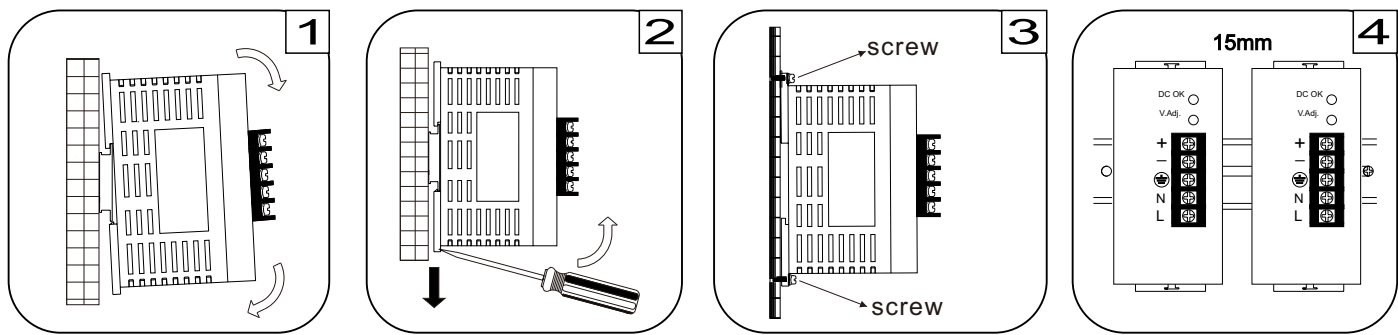


Case No.	AD024	
Dimensions	75.5(D)x45(W)x96(H)mm	
Case Material	Plastic	
Weight	AD1048-12FS	229 g
	AD1048-15FS	229 g
	AD1048-24FS	229.8 g
	AD1048-48FS	219 g

Terminal Allocation

Designation	Description
DC OK	Green LED Indicator
V Adj.	O/P Voltage adjustment
+	Output Positive
-	Output Negative
⏏	Earth
N	Input Neutral
L	Input Line

Installation instruction



Place the top of the AD1048FS rail mount over the top of the DIN rail. Tilt the bottom of the AD1048FS toward the DIN rail until it snaps into place.

To remove AD1048FS from the DIN rail, use a flathead screwdriver to pull down the bottom of the rail mount and tilt it away from the DIN rail.

To install AD1048FS on wall/plate, pulling both mounting brackets out first. Then screwing the two brackets with screws onto wall/plate.

The vents of housing is designed for dissipating heat, please keeping a minimum distance of 15mm from each other.