

AD1240C Series

240Watts, Single Output



Dimensions: 121(D)x100(W)x110(H) mm

Features

- High power density
- Universal input range
- Convection cooled
- RoHS compliance
- 3 year warranty
- Great reliability
- DIN Rail / Wall bracket mounting solution
- Optional alarm signal / Redundant function
- Over voltage protection
- Overload protection
- Short circuit protection
- Active PFC to meet EN61000-3-2(PF>0.94)

Safety Standards



EN 60950 (Marking)



UL 508 (Certificate)
CSA 22.2 (Certificate)

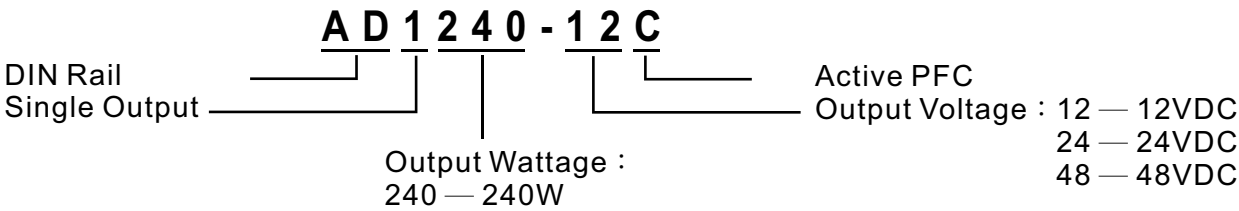
EMC Standards

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.	Loading Rated	Max.	Ripple Noise	Efficiency	Over Voltage Protection
AD1240-12C	+12VDC±10%	0A	20A	20A	100mVp-p	80%	15~17VDC
AD1240-24C	+24VDC±10%	0A	10A	10A	150mVp-p	81%	27~30VDC
AD1240-48C	+48VDC±10%	0A	5A	5A	250mVp-p	83%	52~56VDC

Model Encoding



Specification

General

Switching Frequency		132kHz
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~40°C ambient
Derating		2.5% per degree from 40°C to 60°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		60,000hrs 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)	22A/115VAC 44A/230VAC
Rated Input Current	5A 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%
Rated Continuous Loading	20A@12VDC, 10A@24VDC, 5A@48VDC
Hold Up Time	40mS Min., Full load@230VAC.
Turn On Time	1200mS
Rise Time	15mS
Fall Time	30mS

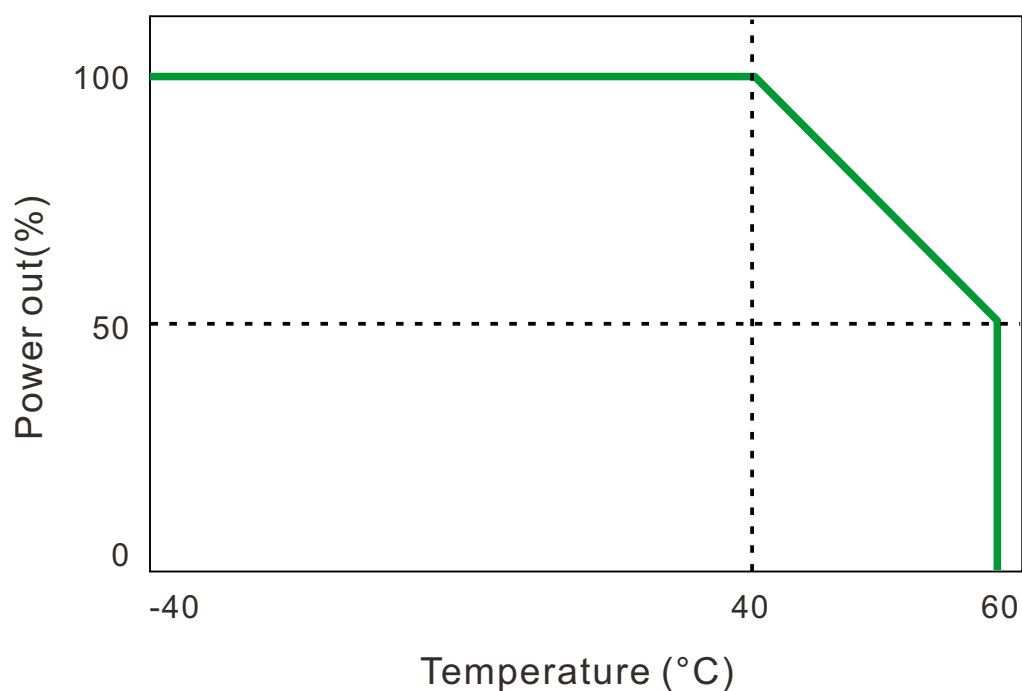
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ACRO
ENGINEERING INC.

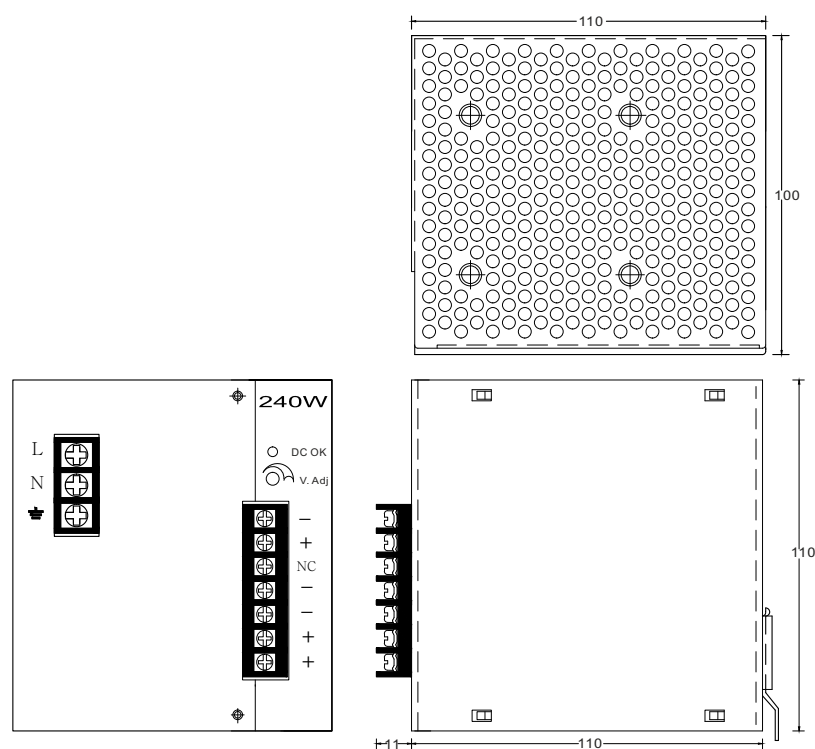
Specification

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		5A/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		130~150%
Overload protection		Power limited

Derating Curve



Mechanical Details

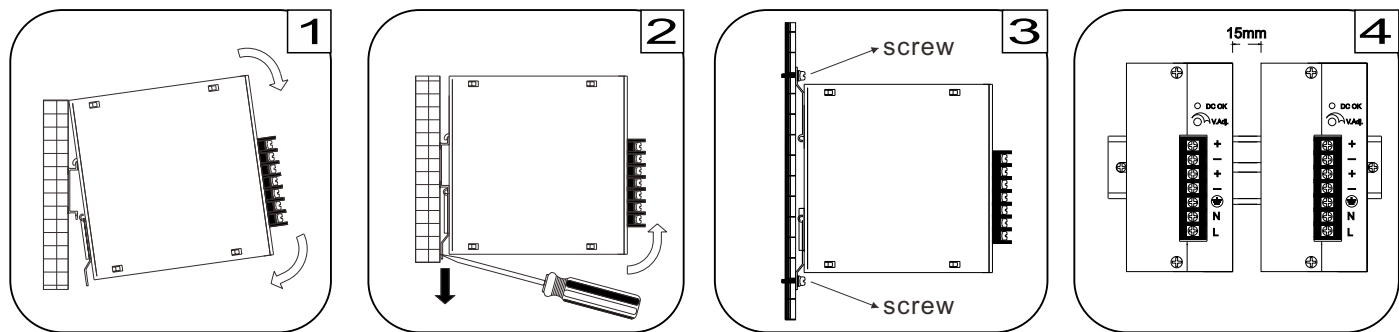


Case No.		AD240
Dimensions		121(D)x100(W)x110(H)mm
Case Material		Metal
Weight	AD1240-12C	1222 g
	AD1240-24C	1210.6 g
	AD1240-48C	1179.2 g

Terminal Allocation

Designation	Description
DC OK	Green LED Indicator
V Adj.	O/P Voltage adjustment
+	Output Positive
-	Output Negative
NC	No Connect
⏏	Earth
N	Input Neutral
L	Input Line

Installation instruction



Place the top of the AD1240C rail mount over the top of the DIN rail. Tilt the bottom of the AD1240C toward the DIN rail until it snaps into place.

To remove the AD1240C 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 AD1240C on wall/plate, loosening screws on mounting bracket and pull both brackets out first. Then re-screwing the two brackets with screws onto wall/plate.

The left housing of AD1240C is designed as a heat sink, please keeping a minimum distance of 15mm from each other.