



Dimensions: 121(D)x75(W)x110(H) mm

AD1240S Series

240Watts, Single Output

Features

- High power density
- Built-in cooling fan
- 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

Safety Standards



EN 60950 (Marking)



UL 508 (Approval)

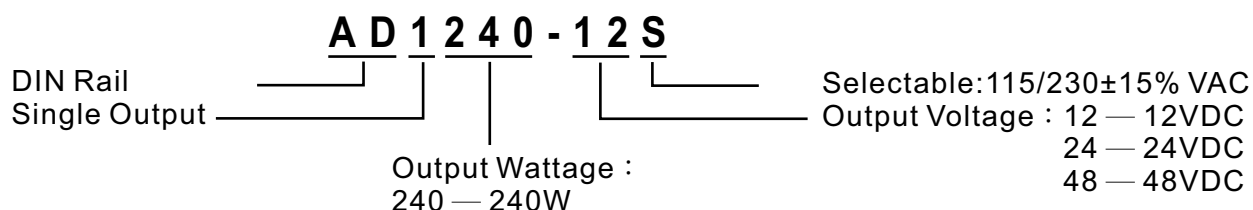
EMC Standards

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
AD1240-12S	+12VDC $\pm$ 10%	0A	20A	20A	100mVp-p	80%	15~17VDC
AD1240-24S	+24VDC $\pm$ 10%	0A	10A	10A	150mVp-p	82%	27~30VDC
AD1240-48S	+48VDC $\pm$ 10%	0A	5A	5A	250mVp-p	84%	52~56VDC

Model Encoding



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Specification

General		
Switching Frequency		85kHz
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		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		115/230VAC ±15% Selectable
Input Frequency		47~63Hz
Inrush Current (cold start)		22A/115VAC 44A/230VAC
Rated Input Current		5A Max.@Vi=100~240VAC, 3A Max.@Vi=200~240VAC
Leakage Current		Input-output 0.25mA, Inout-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		30mS Min., Full load@230VAC.
Turn On Time		1300mS
Rise Time		15mS
Fall Time		30mS

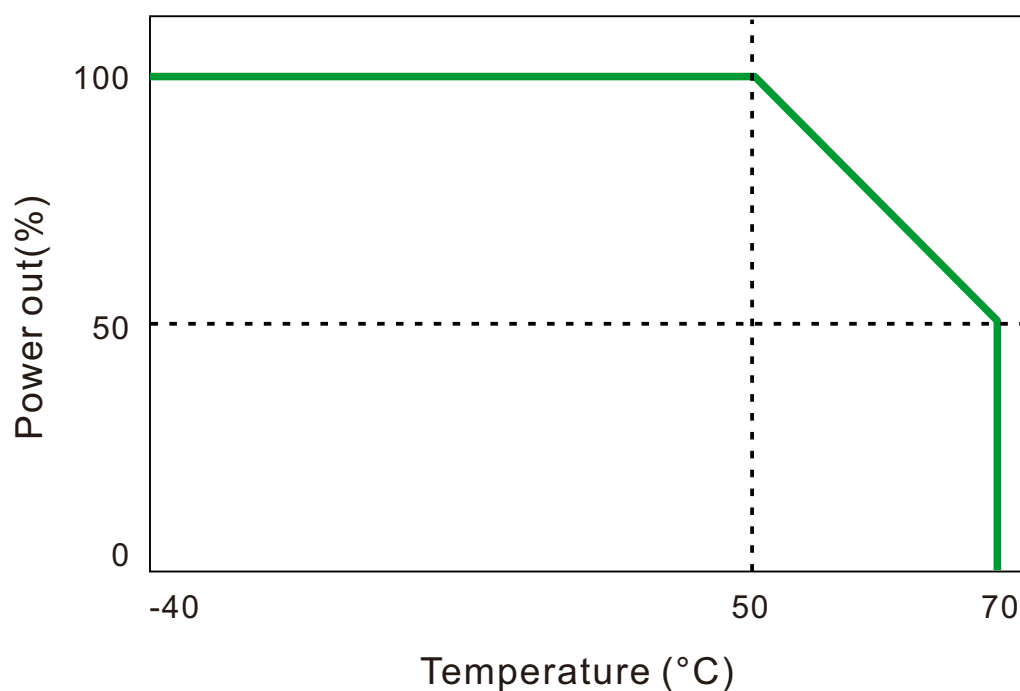
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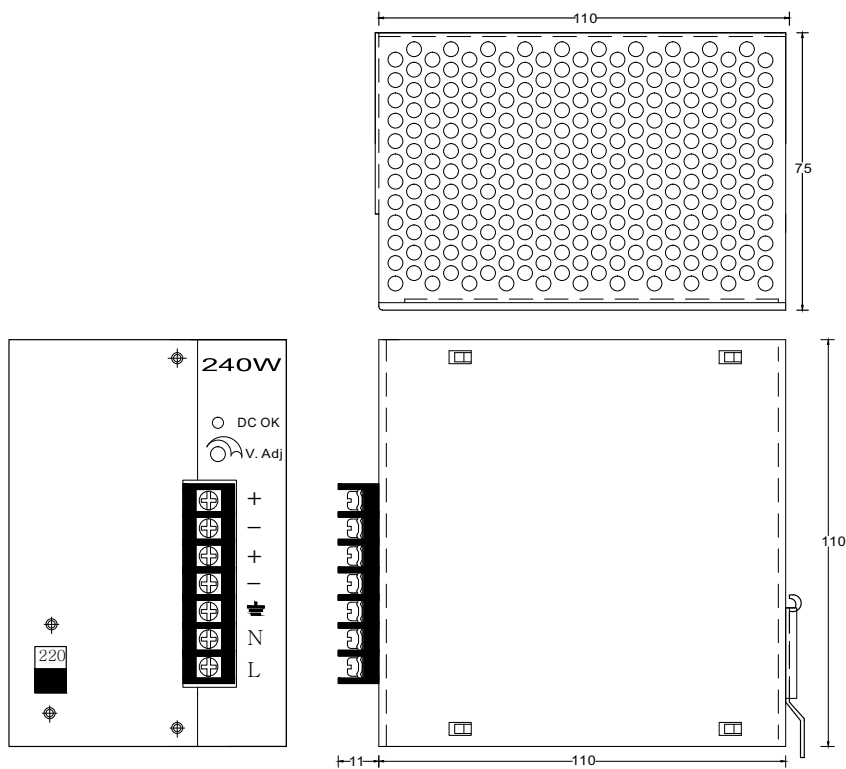
Specification

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		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		160~200%
Overload protection		Power limited

Derating Curve



Mechanical Details

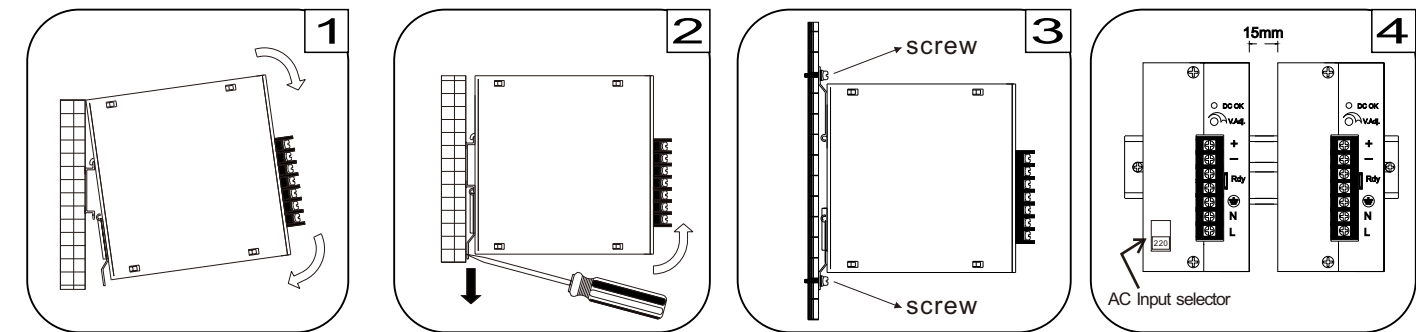


Case No.		AD240S
Dimensions		121(D)x75(W)x110(H)mm
Case Material		Metal
Weight	AD1240-12S	800.2 g
	AD1240-24S	795.5 g
	AD1240-48S	782 g

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 AD1240S rail mount over the top of the DIN rail. Tilt the bottom of the AD1240S toward the DIN rail until it snaps into place.

To remove the AD1240S 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 AD1240S 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 AD1240S is designed as a heat sink, please keeping a minimum distance of 15mm from each other.