

ACP-P0004

240W Single Output Power Supply

Features

- Input Voltage Range : 115/230 VAC $\pm 15\%$ Selectable
- Nominal Output Voltage : 10A@24VDC
- DIN Rail/Wall Bracket Mounting Solution
- Optional Alarm Signal Redundant Function
- Over Voltage Protection
- High Power Density
- Short Circuit Protection
- Dimension (DxWxH) : 121 x 75 x 110 mm

Appearance





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Revision Table

Date	Revision	Content	By
2025/12/10	0.1	First Draft	Tommy

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Specification

Input Data	
Input Voltage Range	115/230VAC $\pm 15\%$ 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, Input-FG 3.5mA, Vi=250VAC
Output Data	
Output Voltage Accuracy	$\pm 1\%$
Minimum Load	0%
Line Regulation	$\pm 1\%$, Measuring from Low Line to High Line Rated Load
Load Regulation	$\pm 1\%$, Measuring from 20% to 100% of Rated Load 230VAC Input
Voltage Trim Range	$\pm 10\%$
Rated Continuous Loading	10A@24VDC
Hold Up time	30mS Min., Full Load@230VAC
Turn On Time	1300mS
Rise Time	15mS
Fall Time	30mS

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Output Data	
Recover Time	2mS, Load Change 50% to 100%
Voltage Devia On	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 0.1μF/630V Metalize Capacitor and a 47μF 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	Auto Recovery
Over Voltage Protection	Auto Recovery
Rated Over Load Protection	160 - 200%
Overload Protection	Power Limited

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Specification

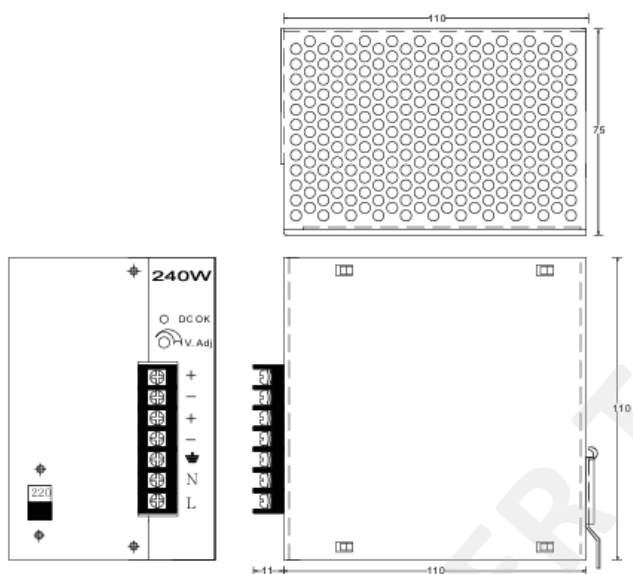
Switching Frequency		85kHz
Isolation Voltage	Input –Output	3000VAC /4242VDC
	Input-FG	1500VAC/2121VDC
	Output-FG	500VAC/ 710VDC
Isolation Resistance		100MΩ When Input-Output @500VDC
Operating Temperature		-40°C - 50°C Ambient
Derating		2.5% Per Degree from 50°C to 70°C
Storage Temperature		-40°C to +85°C
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 Axis

Environmental performance may vary according to the integration method or final integration scenario.

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Housing

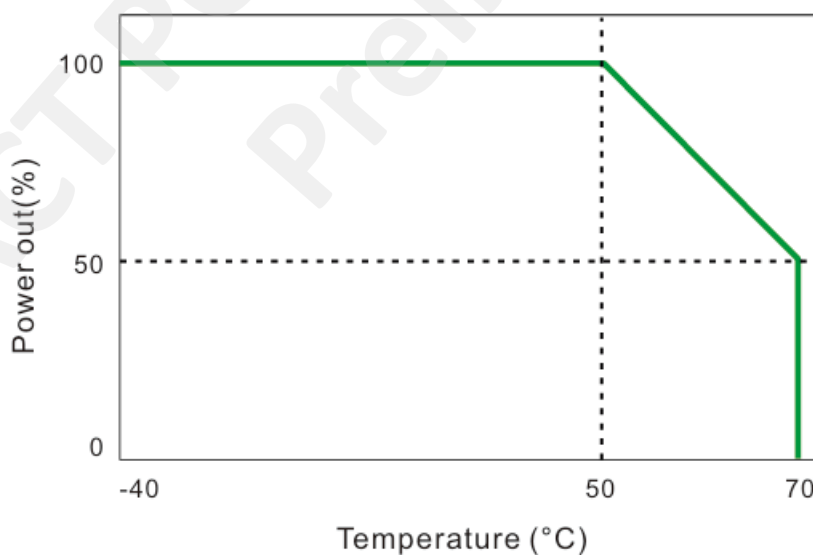


Case No.		AD240S
Dimensions		121(D)x75(W)x110(H)mm
Case Material		Metal
Weight	AD1240-12S	800.2 g
	AD1240-24S	795.5 g
	AD1240-48S	782 g

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

Derating Curve



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Compliance

Standards	EN55011 EN 60950 (Marking) UL 508 (Approval) EN55022 EN61000-4-2 Class B EN61000-4-3 Class B 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
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Deliverables

1	240W Single Output Power Supply
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Ordering Information

Model Name	Description	Unit
ACP-P0004	240W Single Output Power Supply	1

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