

ADS500S Series

500Watts, Single Output



Dimensions: 100(D)x130(W)x107(H) mm

Features

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

Safety Standards



EN 60950 (Marking)

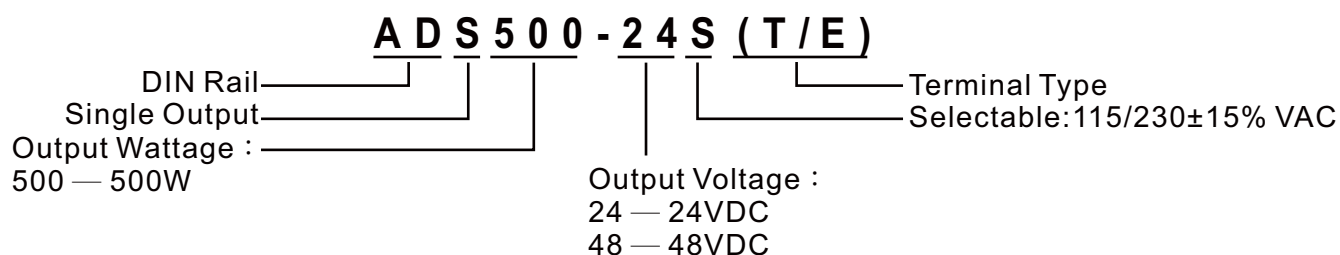
EMC Standards

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
ADS500-24S(T/E)	+24VDC $\pm$ 10%	0A	21.0A	21.0A	150mVp-p	84%	27~30VDC
ADS500-48S(T/E)	+48VDC $\pm$ 10%	0A	10.5A	10.5A	250mVp-p	85%	52~56VDC

Model Encoding



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 Tel: +886-2-22675015 Fax: +886-2-22674939

ACRO
ENGINEERING INC.

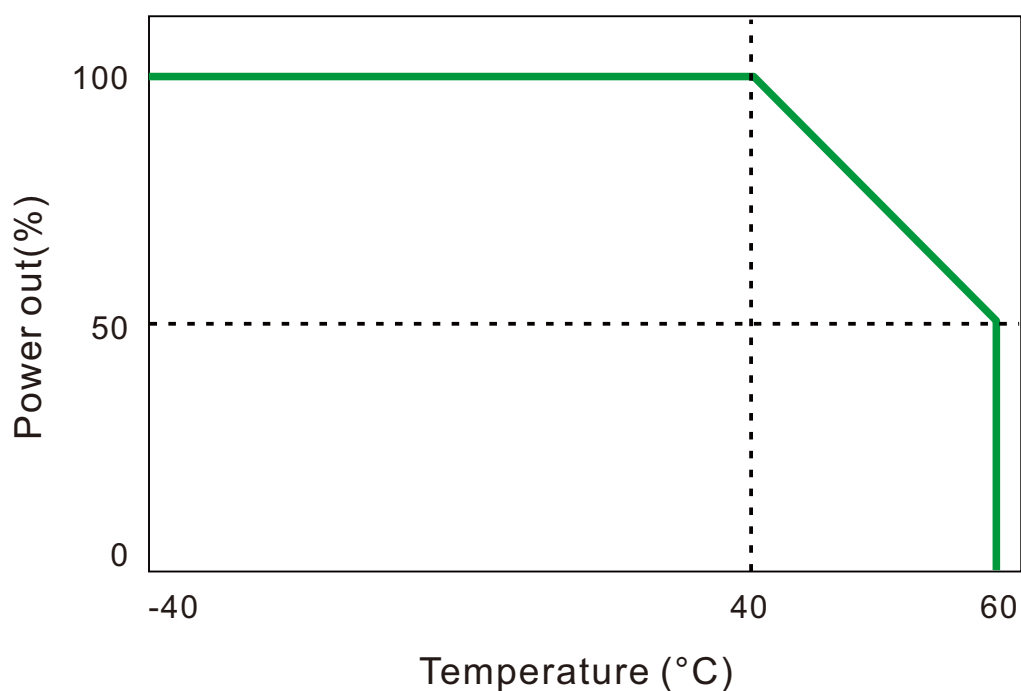
Specification

General		
Switching Frequency		85k Hz
Isolation Voltage	Input-Output	3000 VAC/4242 VDC
	Input-FG	1500 VAC/2121 VDC
	Output-FG	500 VAC/710 VDC
Isolation Resistance		100M Ω 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		$\pm 0.04\%$ of output voltage per °C
MTBF		60,000hrs Min. Per MIL-HDBK-217F, 25°C GB
Altitude During Operation		2000m
Installation position		Vertical
Vibration		Random vibration, 10~500Hz, 3 axise
Input		
Input Voltage		115/230AC $\pm 15\%$ selectable
Input Frequency		47~63 Hz
Inrush Current (cold start)		22A/115VAC 44A/230VAC
Rated Input Current		10A Max@Vi=115VAC, 6A Max@Vi=230VAC
Leakage Current		Input-output 0.25mA, Input-FG 3.5mA, Vi=250VAC
Output		
Output Voltage accuracy		$\pm 1\%$
Minimum Load		0%
Line Regulation		$\pm 1\%$, measuring from low line to high line at rated load.
Load Regulation		$\pm 2\%$, measuring from 20% to 100% of rated load at 230VAC input.
Voltage Trim Range		$\pm 10\%$
Rated Continuous Loading		21A@24VDC, 10.5A@48VDC, 7A@72VDC
Hold Up Time		20mS Min., Full load@230VAC.
Turn On Time		1300mS
Rise Time		15mS
Fall Time		35mS

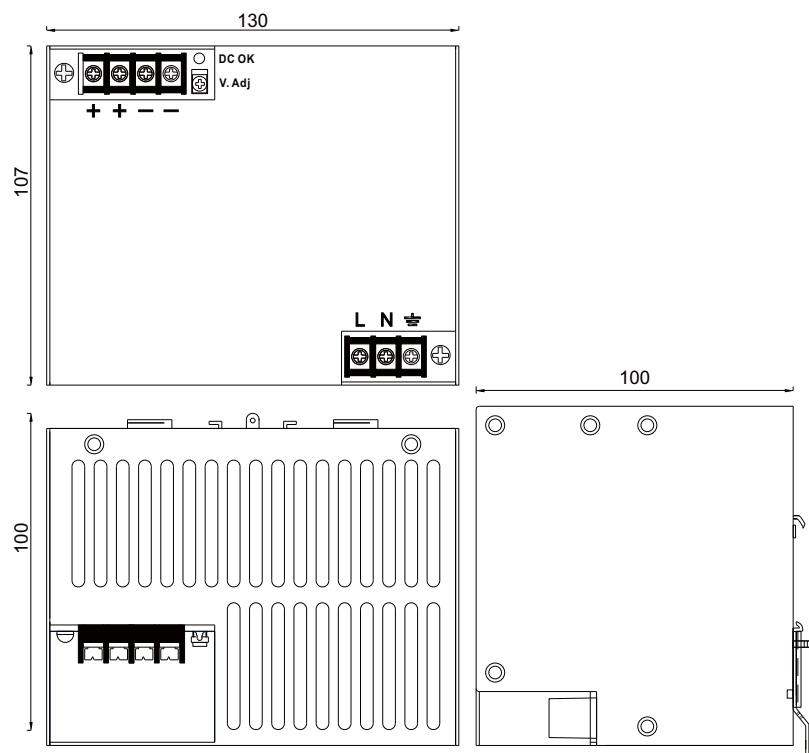
Specification

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		10A/250V
Internal Surge Load Protection		Varistor, IEC 61000-4-5
Degree of Protection		IP20
Short Circuit Protection		Autorecovery
Over Voltage Protection		Autorecovery
Rated Over Load Protection		110~130%
Overload protection		Power limited

Derating Curve



Mechanical Details

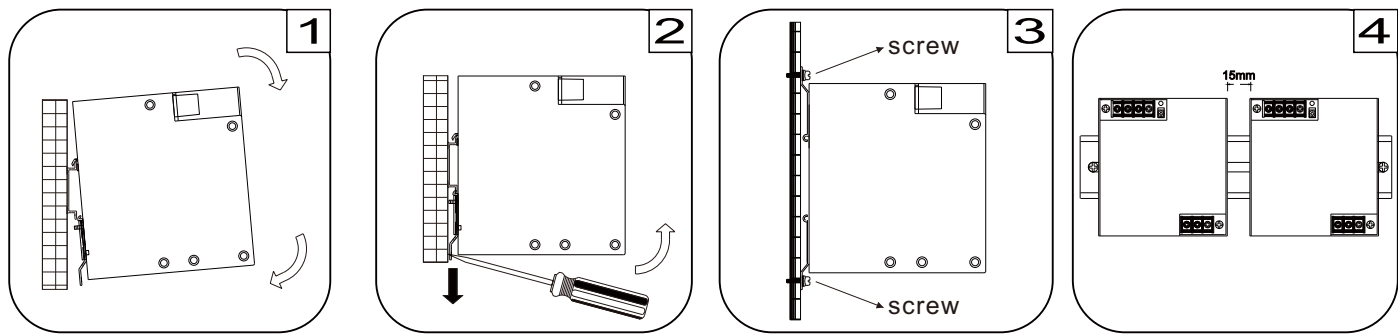


Dimensions	100(D)x130(W)x107(H)mm
Case Material	1mm Steel

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 ADS500S rail mount over the top of the DIN rail. Tilt the bottom of the ADS500S toward the DIN rail until it snaps into place.

To remove the ADS500S 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 ADS500S 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 ADS500S is designed as a heat sink, please keeping a minimum distance of 15mm from each other.