

FEATURES

- Embedded switch mode power supply (SMPS)
- Output voltage of 24 V DC
- Output current of 1.5 A
- Power rating of 36 W
- Single output
- Input voltage of 88 to 264 V AC
- Chassis mounted
- Enclosed package type
- Dimensions of 78 mm (L) x 51 mm (W) x 28 mm (D)
- Weight of 180 g
- Efficiency of 87%

RS PRO, 36W Embedded Switch Mode Power Supply SMPS, 24V dc, Enclosed

RS Stock No.: 711-2627



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

This embedded switch mode power supply (or SMPS for short) is part of RS PRO's quality EDA100 series of single output AC/DC converters. And that's exactly what it does – used in both commercial and residential environments including factory automation and communication equipment, it converts output between alternating current (AC) and direct current (DC).

General Specifications

Mounting Type	Chassis Mount
Package Type	Enclosed
MTBF	695000 h
Applications	Industrial control system, Mechanical and electrical equipment

Electrical Specifications

Input Specification	
Voltage Range	88Vac to 264Vac
Frequency	47Hz to 63Hz
Power Dissipation	7W @12Vdc output
AC Current Rating	620mA/115Vac, 400A/230Vac
Inrush Current	40A/230Vac
Leakage Current (max.)	3.5mA
Input Protection	T2A / 250V ac internal fuse in line

Output Specification	
Output Number	1
DC Voltage	24Vdc
Ripple & Noise (max.)	100mVp-p
Rated Current	1.5A
Rated Power	36W
Voltage Tolerance	±1%
Line Regulation	±0.5%
Load Regulation	±1%

Voltage Adj. Rang	10.8V to 13.2V	
Rise Time	150ms/230V ac	
Fall Time	150ms/230V ac	
Hold Up Time	50ms/230V ac, 10ms / 115V ac at full load	
Transient Recovery Time	2ms/230V ac	
No Load Power Consumption	0.3W	
Capacitor Load	3500µF	
Overload Protection	110% to 170%	
Over Voltage Protection	13.8Vdc to 16.2Vdc	
Short Circuit Protection	Yes	
Switching Frequency	65KHz	
Isolation Resistance	100MΩ@500Vdc	
Voltage Isolation	Input-Output	3000V ac
	Input-Ground	1500V ac

Mechanical Specifications

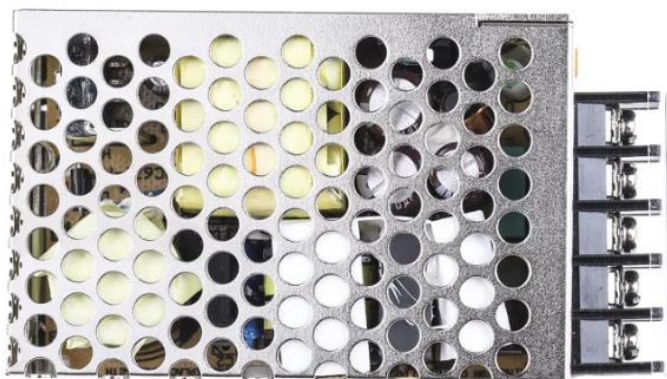
Housing Material	Metal
Overall Dimensions	78mm x 51mm x 28mm
Overall Length	78mm
Overall Depth	51mm
Overall Width	28mm
Weight	180g

Operation Environment Specifications

Operating Humidity	20% to 90% RH non-condensing
Cooling	Natural convection
Operating Temperature Range	-40°C to 71°C
Storage Temperature Range	-40°C to 85°C
Temperature Coefficient	± 0.03% / C
Altitude During Operation	4850m
Vibration Resistance	10-500Hz, 2G, along X, Y,Z each Axis, 60 min for each Axis
Shock Resistance	15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face

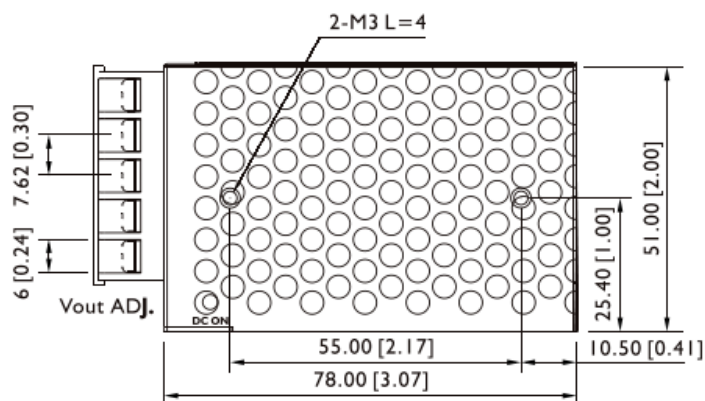
Approvals

Safety Standard	EN 60950-1 and UL 60950-1 approved
EMC Emission	Compliance to EN55022 Class B, EN55024, EN61000-6-3, EN61000-3-2



MECHANISM & PIN CONFIGURATION

mm [inch]

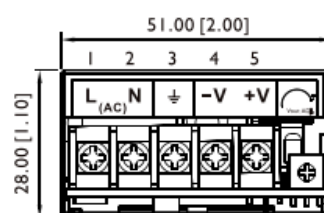
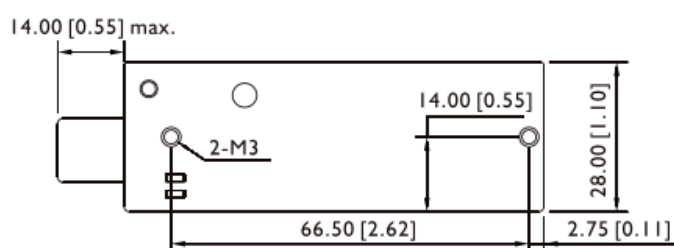


INSTALLATION

Ventilation / Cooling
Normal convection
Connector size range
AWG22-14 (0.2~2mm²) flexible / solid cable,
connector can withstand torque at maximum
8 pound-inches.

GENERAL TOLERANCE

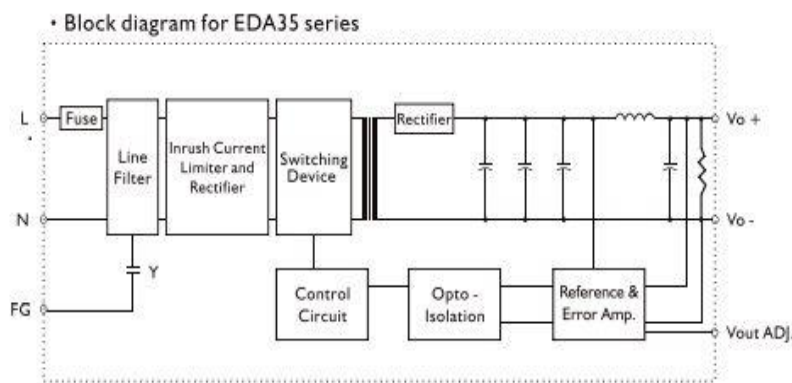
0.00[0.00] - 30.00[1.18]	±0.30[0.01]
30.00[1.18] - 120.00[4.72]	±0.50[0.02]



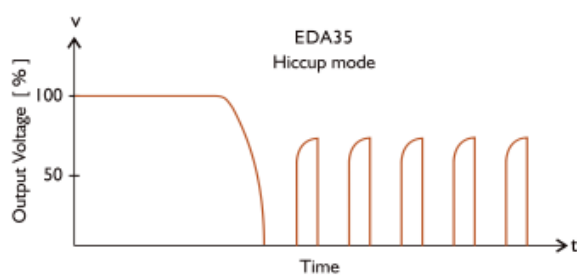
PIN ASSIGNMENT

PIN NO.	Designation	Description
1	IN	L
2		N
3		⊕
4	OUT	-
5		+
		Vout ADJ.
		DC ON

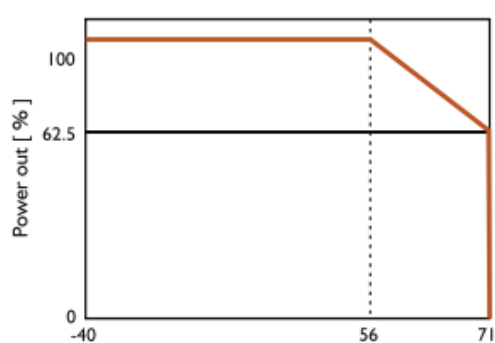
CIRCUIT SCHEMATIC



TYP. CURRENT LIMITED CURVE



DERATING CURVE



TYP. EFFICIENCY CURVE

