

FEATURES

- Compact Mounting
- High Performance
- Single Phase Input
- Reliable
- Led Indicators

RS PRO DIN Rail Power Supply - 230V ac Input Voltage, 12V dc Output Voltage, 5A Output Current, 70W

RS Stock No.: 136-8312



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.

DIN Rail Power Supplies



Product Description

From RS Pro a range of high-performance power supplies in a compact 35mm DIN rail mounting package for convenience and space saving. These DIN rail mount power supplies are available with a range of power ratings from 15W to 240W and accept single-phase AC input for conversion into a single DC output of either 12V, 15V, 24V or 48V DC.

General Specifications

Туре	Switch Mode
AC or DC Input Voltage	230VAC
AC or DC Output Voltage	12 VDC
Number of Outputs	1
Special Features	Compact Size, Cooling by Free Air Convection, LED Indicator for DC Low, LED Indicator for DC Power On, 3-Years Warranty, 100% Full Load Burn-In Test
Mounting Type	DIN Rail, Vertical Mount
Short Circuit Protection	Yes
Over Voltage Protection	Yes
Indication of Output Voltage	LED, continuous green light
Applications	Sensors, Transmitters/receivers, Analyzers, PLCs Motors, Actuators, Solenoids, Relays

Electrical Specifications

RS Stock#	Input Voltage	Output Voltage	Output Current	Output Wattage	Efficiency (Typ)
136-8312	100VAC- 240VAC	+ 12VDC	5A	60W	84%
136-8314	100VAC- 240VAC	+ 15VDC	4.6A	70W	84%
136-8315	100VAC- 240VAC	+ 24V DC	3A	70W	86%
136-8316	100VAC- 240VAC	+ 48V DC	1.5A	70W	86%

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Input Specifications			
Input Electrical Phase	Single		
Input current	0.8A / 230VAC		
Line Frequency	47Hz to 63Hz		
Inrush current at 25°C 230V	60A		
Efficiency (Typ.)	84%		
Output Specifications			
Output Voltage Adjustment	11VDC-14VDC		
Ripple and Noise	100mV		
Hold Up Time	20ms/115VAC		
Line Regulation	2%		
Load Regulation	3%		
Voltage Isolation	Input-Output	3000VAV	
	Input-Ground	1500VAC	
	Output-Ground	1500VAC	
Surge Voltage	2kV		
MTBF	200Khrs		

Mechanical Specifications

Height	130mm
Depth	125mm
Width	33mm
Weight	650g
Dimensions	33mm x 130mm x 125mm

Operation Environment Specifications

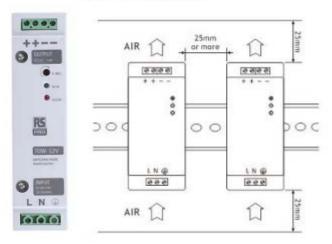
Operating Humidity	20% to 95% RH
Operating Temperature Range	-30 to 70°C
Storage Temperature Range	-40 to 85°C
Cooling	Free Air convection

Approvals

Standards Met	CB, CE, CUL, CULus Recognised, FCC, UL



Mounting Method

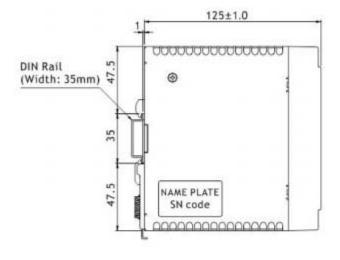


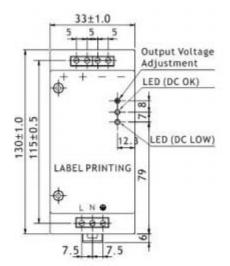
Stock Number	Nominal Input Voltage	Output Voltage	Output Current	Ripple (Max.)	Efficiency (Typ.)	Certificate
136-8312	100-240VAC	12V	5A	100mV	84%	CE, FCC, CB, UL, CUL
136-8314	100-240VAC	15V	4.6A	120mV	84%	CE
136-8315	100-240VAC	24V	ЗА	120mV	86%	CE, FCC, CB, UL, CUL
136-8316	100-240VAC	48V	1.5A	240mV	86%	CE, FCC, CB, UL, CUL

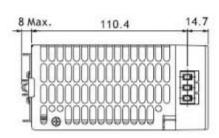
DIN Rail Power Supplies



Mechanical





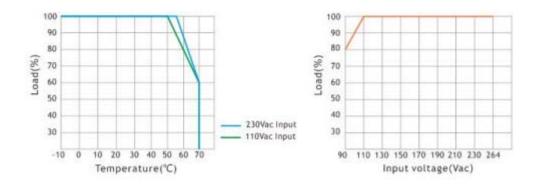




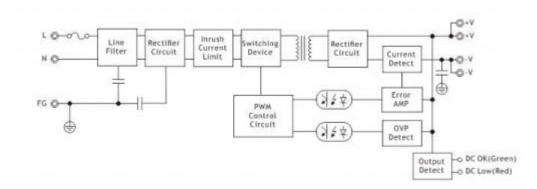
No.	Assignment		
1	DC// Output Terminal		
2	DC(+) Output Terminal		
3	DC/ 10 to 17 miles!		
4	DC(-) Output Terminal		
5	AC(L) Input Terminal		
6	AC(N) Input Terminal		
7	AC Grounding Terminal		
1	DC Output voltage adjustment trimmer		
1	DC Output OK indication LED(Green)		
1	DC Output Low indication LED(Red)		
	3 4 5 6 7 /		



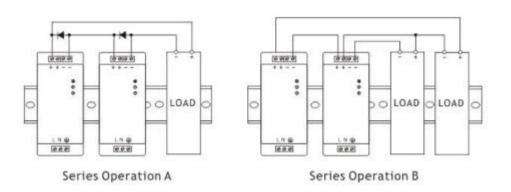
Electrical Curve



Block Diagram



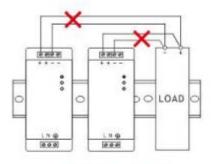
Series Operation



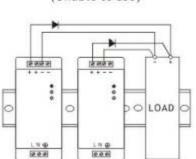




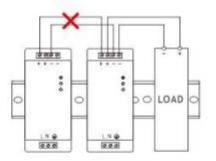
Parallel Operation



Parallel Operation A (Unable to use)



Parallel Operation C (Backup)



Parallel Operation B (Unable to use)