

## 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, 8A Output Current, 120W

RS Stock No.: 136-8317



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

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

<b>Type</b>	Switch Mode
<b>AC or DC Input Voltage</b>	230vac
<b>AC or DC Output Voltage</b>	12vdc
<b>Number of Outputs</b>	1
<b>Special Features</b>	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
<b>Mounting Type</b>	Din Rail, Vertical Mount
<b>Short Circuit Protection</b>	Yes
<b>Over Voltage Protection</b>	Yes
<b>Indication of Output Voltage</b>	LED, Continuous Green Light
<b>Applications</b>	Sensors, Transmitters/receivers, Analyzers, PLCs Motors, Actuators, Solenoids, Relays

## Electrical Specifications

RS Stock#	Input Voltage	Output Voltage	Output Current	Output Wattage	Efficiency (Typ)
136-8317	100VAC-240VAC	+ 12VDC	8A	120W	82%
136-8318	100VAC-240VAC	+ 15VDC	7A	120W	82%
136-8319	100VAC-240VAC	+ 24VDC	5A	120W	85%
136-8320	100VAC-240VAC	+ 48VDC	2.5A	120W	86%

Input Specifications		
Input Electrical Phase	Single	
Input current	1.3A / 230VAC	
Line Frequency	47 to 63Hz	
Inrush current at 25°C 230V	60A	
Efficiency (Typ.)	82%	
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	3000VAC
	Input-Ground	1500VAC
	Output-Ground	1500VAC
Surge Voltage	2kV	
MTBF	200Khrs	

## Mechanical Specifications

Height	130mm
Depth	125mm
Width	40mm
Weight	800g
Dimensions	40mm x 130mm 125mm

## Operation Environment Specifications

Operating Humidity	20% to 95% RH
Operating Temperature Range	-25 to 70°C
Storage Temperature Range	-40 to 85°C
Cooling	Free Air convection

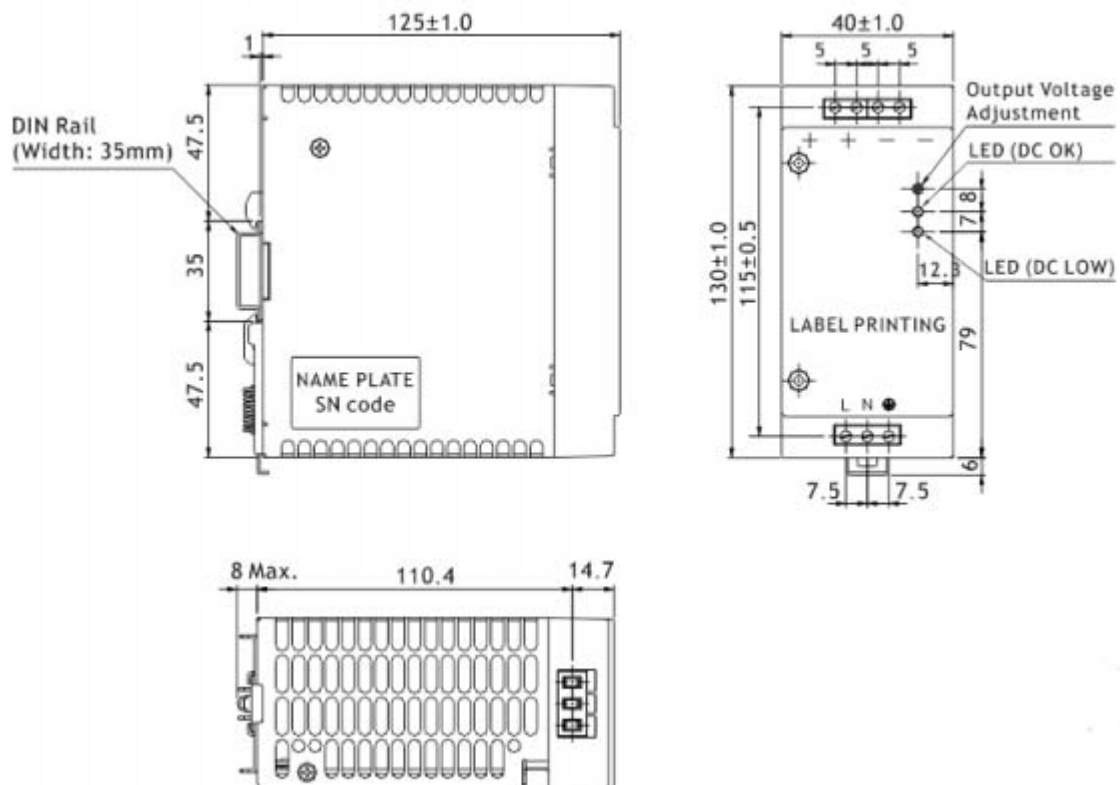
## Approvals

Standards Met	CB, CE, CUL, CULus Recognised, FCC, UL
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Stock Number	Nominal Input Voltage	Output Voltage	Output Current	Ripple (Max.)	Efficiency (Typ.)	Certificate
136-8317	100-240VAC	12V	8A	100mV	82%	CE, FCC, CB, UL, CUL
136-8318	100-240VAC	15V	7A	120mV	82%	CE
136-8319	100-240VAC	24V	5A	120mV	85%	CE, FCC, CB, UL, CUL
136-8320	100-240VAC	48V	2.5A	240mV	86%	CE, FCC, CB, UL, CUL

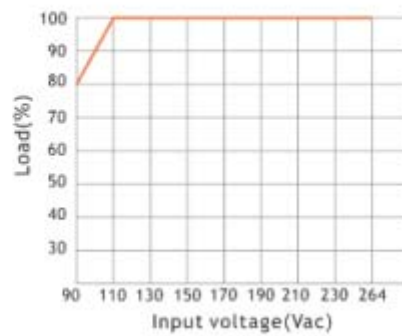
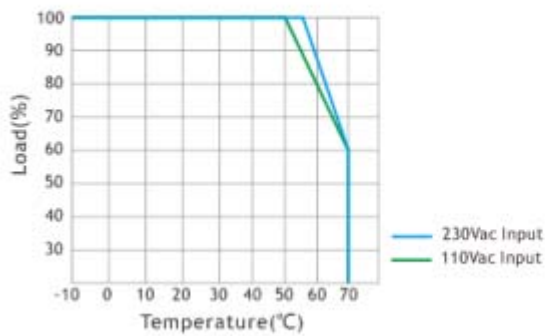
## Mechanical



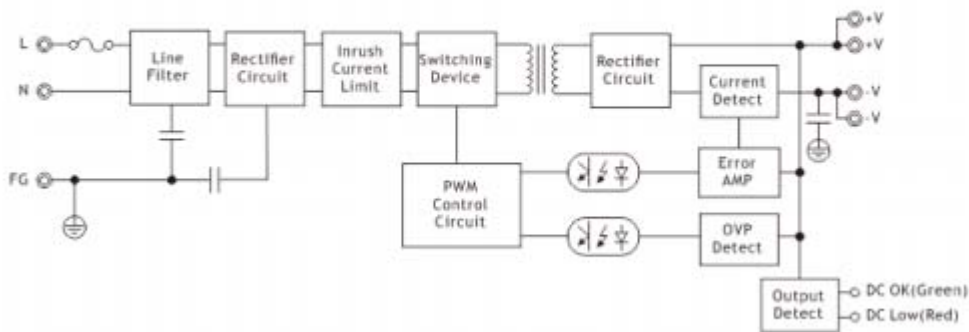


Marking	No.	Assignment
+	1	DC(+) Output Terminal
+	2	
-	3	DC(-) Output Terminal
-	4	
L	5	AC(L) Input Terminal
N	6	AC(N) Input Terminal
⊕	7	AC Grounding Terminal
V-ADJ.	/	DC Output voltage adjustment trimmer
DC OK	/	DC Output OK indication LED(Green)
DC LOW	/	DC Output Low indication LED(Red)

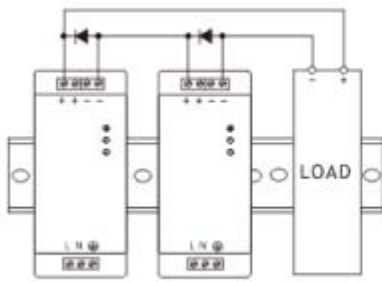
## Electrical Curve



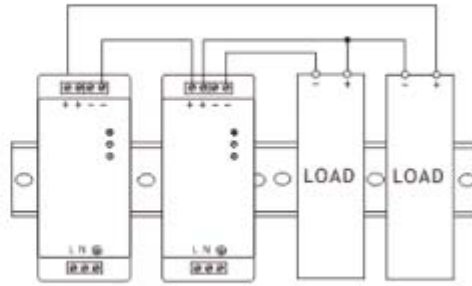
## Block Diagram



## Series Operation

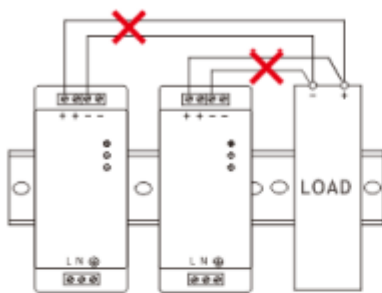


Series Operation A

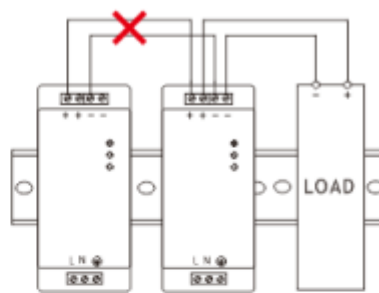


Series Operation B

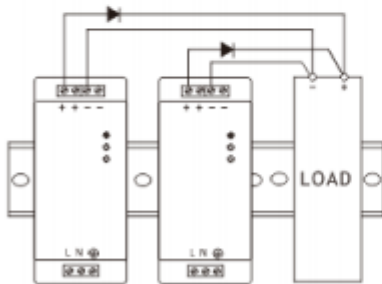
## Parallel Operation



Parallel Operation A  
(Unable to use)



Parallel Operation B  
(Unable to use)



Parallel Operation C  
(Backup)

## Mounting Method

