

# DPSD150S SERIES | STEP SHAPE

150W DIN Rail AC-DC Power Supply

MODEL: DPSD150S | CATEGORY: AC-DC | RATED POWER: 150W | FORM: DIN Rail

## PRODUCT OVERVIEW



### Key Product Features

- Ultra-slim DIN-rail design
- Wide AC/DC input range
- Adjustable DC output voltage
- High efficiency, low standby loss
- Built-in overload, over voltage, short circuit protection
- Class II isolation
- Isolation Class II, Overvoltage Category II

## PRODUCT DESCRIPTION


The DPSD150 series DIN-rail power supplies deliver 150W of reliable AC/DC conversion in a compact, ultra-slim step-shaped design. They support a wide input range and provide stable, adjustable DC output with high efficiency and low no-load power consumption, making them suitable for continuous industrial operation.

## SAFETY CERTIFICATES



- UL508 compliant
- EMC: EN55032 Class B, EN61000 series
- Withstand voltage up to 4KVAC
- High insulation resistance (>100MΩ)

## Applications

- |  |   |
|--|---|
|  Industrial automation systems |  Machinery and process control |
|  Control panels and PLCs       |  General industrial equipment  |
|  Building automation           |   |

# ELECTRICAL SPECIFICATIONS

## Model Information

Part Number	DC Voltage	Rated Current	Rated Power
DPSD150S-12	12V	11.3A / 10.2A	135.6W / 230VAC   122.4W / 115VAC
DPSD150S-15	15V	9.5A / 8.55A	142.5W / 230VAC   128.3W / 115VAC
DPSD150S-24	24V	6.25A / 5.3A	150.0W / 230VAC   127.4W / 115VAC
DPSD150S-48	48V	3.12A / 2.72A	153.6W / 230VAC   130.6W / 115VAC

## Input Specifications

Parameter	Value	Model
Voltage Range	90~264VAC / 127~370VDC	All Models
Frequency Range	47~63Hz	All Models
Inrush Current	Cold start 35A/115VAC, 70A/230VAC	All Models
AC Current	3A/115VAC; 1.6A/240VAC	All Models
Efficiency	89.0%	DPSD150S-12
	89.5%	DPSD150S-15
	90.5%	DPSD150S-24
	90.5%	DPSD150S-48

For quotes and customization requests, contact Digital Power sales at (877) 634-0982 or sales@digipwr.com.

# ELECTRICAL SPECIFICATIONS

## Output Specifications

Parameter	Value	Model
Ripple & Noise	100mVp-p	DPSD150S-12
	120mVp-p	DPSD150S-15
	150mVp-p	DPSD150S-24
	200mVp-p	DPSD150S-48
Voltage Adj. Range	10.8~13.8V	DPSD150S-12
	13.5~18.0V	DPSD150S-15
	21.6~29.0V	DPSD150S-24
	43.2~55.2V	DPSD150S-48
Voltage Tolerance	±2.0%	DPSD150S-12
	±2.0%	DPSD150S-15
	±2.0%	DPSD150S-24
	±2.0%	DPSD150S-48
Line Regulation	±1.0%	All Models
Load Regulation	±1.0%	All Models
Setup, Rise Time	500ms, 60ms / 100~240VAC at full load	All Models
Hold Up Time (Typ.)	30ms/230VAC; 12ms/115VAC at full load	All Models

## Protection

Parameter	Value	Model
Over Load	105~135% rated output power	All Models
	Hiccup mode, auto recovery	All Models
	Constant current limiting (50%~100%), auto recovery	All Models
Over Voltage	14.2~16.2V	DPSD150S-12
	18.8~22.5V	DPSD150S-15
	30.0~36.0V	DPSD150S-24
	56.5~64.8V	DPSD150S-48
	Shutdown o/p voltage, re-power on to recover	All Models

For quotes and customization requests, contact Digital Power sales at (877) 634-0982 or sales@digipwr.com.

# ELECTRICAL SPECIFICATIONS

## Environment

Parameter	Value
Working Temp.	-20°C ~ +70°C
Working Humidity	20~90% RH non-condensing
Storage Temp., Humidity	-40°C ~ +85°C, 10~95% RH non-condensing
Temp. Coefficient	±0.03%/°C (0~50°C)
Vibration	10~500Hz, 2G, IEC60068-2-6 compliant
Operating Altitude	5000 meters
Over Voltage Category	II (EN62368-1 up to 2000m)
MTBF	500K hrs min. MIL-HDBK-217F (25°C)

## Safety&EMC

Parameter	Value
Safety Regulations	UL508
Withstand Voltage	I/P-O/P:4KVAC
Insulation Resistance	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH
EMC Emission	BS EN/EN55032 Class B, IEC61000-3-2,3
EMC Immunity	BS EN/EN61000-4-2,3,4,5,6,8,11

## Dimensions and Weight

Parameter	Value
Length	105mm / 4.13in
Width	90mm / 3.54in
Height	58.4mm / 2.3in
Weight	300g

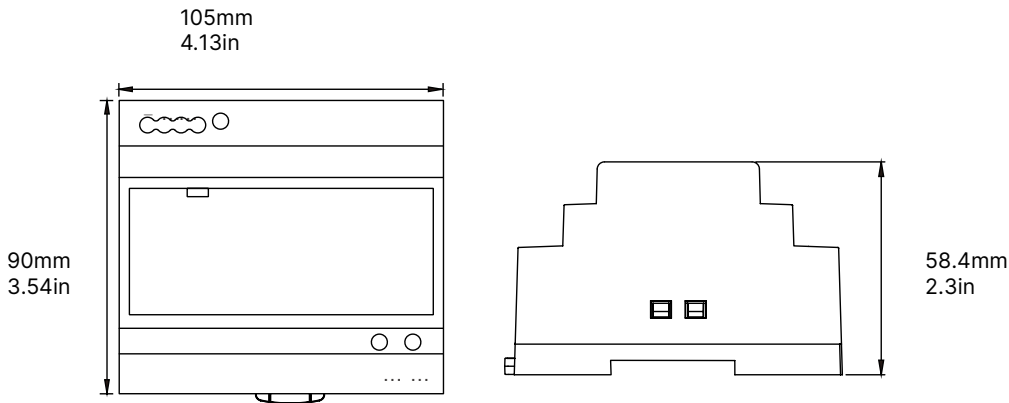
## Packing

Parameter	Value
Carton Size	52.5 × 24.5 × 34.5 cm
Carton Size	20.67 × 9.65 × 13.58 in
Master Carton Quantities	50pcs / Carton

For quotes and customization requests, contact Digital Power sales at (877) 634-0982 or sales@digipwr.com.

# ELECTRICAL SPECIFICATIONS

## Dimensions and Installation



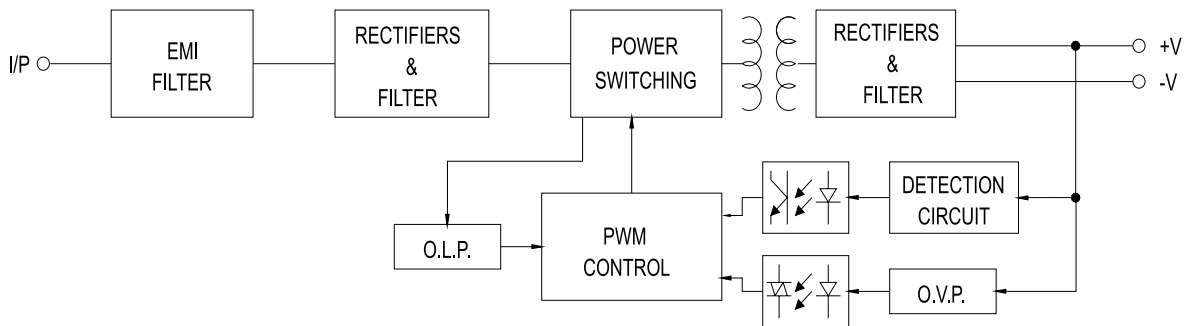
### Input

No.	Description
1	AC/N
2	AC/L

### Output

No.	Description
3,4	-V
5,6	+V

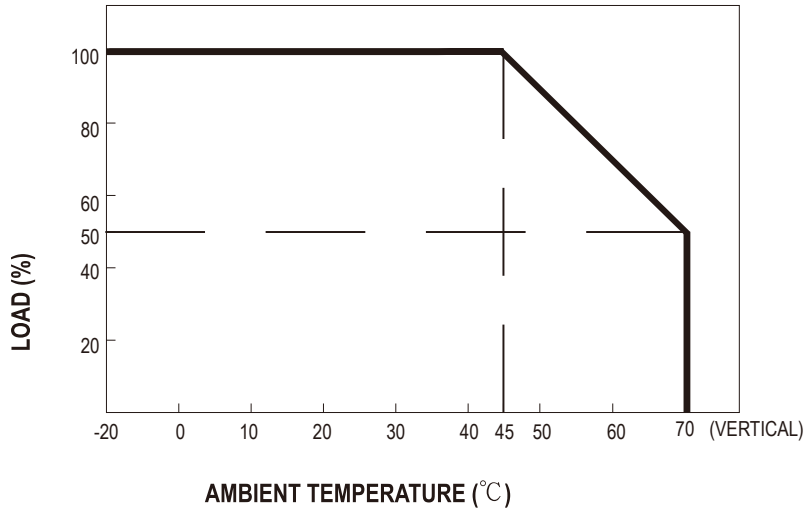
## Block Diagram



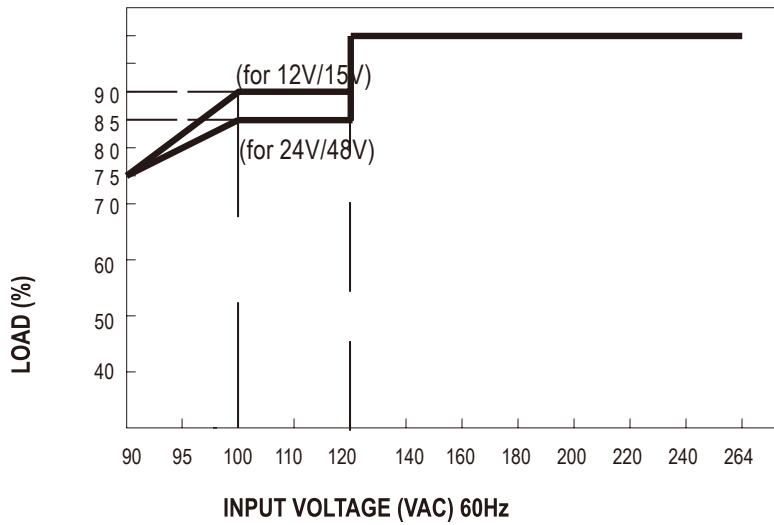
For quotes and customization requests, contact Digital Power sales at (877) 634-0982 or sales@digipwr.com.

# MECHANICAL SPECIFICATIONS

## Deduction Curve and Temperature



## Minus Output and Input Voltage Curves



100  
95

For quotes and customization requests, contact Digital Power sales at (877) 634-0982 or [sales@digipwr.com](mailto:sales@digipwr.com).