

DPSD60S SERIES | STEP SHAPE

60W DIN Rail AC-DC Power Supply

MODEL: DPSD60S | CATEGORY: AC-DC | RATED POWER: 60W | FORM: DIN Rail

PRODUCT OVERVIEW



Key Product Features

- 60W DIN rail power supply
- Ultra-slim compact design
- Wide input: 90–264VAC / 127–370VDC
- Adjustable DC output
- High efficiency, low no-load consumption
- Class II isolation
- Built-in protections: short circuit, overload, overvoltage
- Operating range: -20°C to +70°C

PRODUCT DESCRIPTION

With a wide input voltage range, adjustable output voltage, and Class II isolation design, the DPSD60S provides safe, flexible, and energy-efficient power conversion. Its high efficiency and low no-load power consumption make it ideal for modern control panels and distributed power systems requiring dependable performance in demanding environments.

SAFETY CERTIFICATES



- UL62368-1, EN62368-1 certified
- Class II isolation design
- 4KVAC input-to-output isolation
- EMC compliant (EN55032 Class B, EN61000 series)
- Overvoltage Category II

Applications

- | | |
|--|---|
|  Building automation systems |  Smart home and lighting systems |
|  Industrial control panels |  Security and surveillance systems |
|  PLC and I/O modules |  HVAC control systems |
| |  Distributed power systems |

ELECTRICAL SPECIFICATIONS

Model Information

Model Number	DC Voltage	Rated Current	Rated Power
DPSD60S-5	5V	4.5A	22.5W
DPSD60S-12	12V	4.5A	54W
DPSD60S-15	15V	4A	60W
DPSD60S-24	24V	2.5A	60W
DPSD60S-48	48V	1.25A	60W

Input Specifications

Parameter	Value	Value
Voltage Range	90 ~ 264VAC / 127 ~ 370VDC	90~264VAC
Frequency Range	47 ~ 63Hz	127~370VDC
Inrush Current	Cold Start 30A/115VAC 60A/230VAC	47~63Hz
AC Current	1.2A/115VAC; 0.8A/230VAC	25A (cold start)
Efficiency	DPSD60S-5: 85%	45A (cold start)
	DPSD60S-12: 88%	0.88A
	DPSD60S-15: 89%	0.48A
	DPSD60S-24: 90%	
	DPSD60S-48: 91%	

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	80mVp-p	DPSD60S-5
	120mVp-p	DPSD60S-12
	120mVp-p	DPSD60S-15
	150mVp-p	DPSD60S-24
	240mVp-p	DPSD60S-48
Voltage Adj. Range	5.0 ~ 5.5V	DPSD60S-5
	10.8 ~ 13.8V	DPSD60S-12
	13.5 ~ 18.0V	DPSD60S-15
	21.6 ~ 29.0V	DPSD60S-24
	43.2 ~ 55.2V	DPSD60S-48
Voltage Tolerance	±2.0%	
Line Regulation	±1.0%	
Load Regulation	±1.0%	
Setup, Rise Time	500ms, 50ms/230VAC at full load	
	500ms, 50ms/115VAC at full load	
Hold Up Time	30ms/230VAC at full load	
	12ms/115VAC at full load	

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ELECTRICAL SPECIFICATIONS

Protection

Parameter	Value	
Over Load	105 ~ 160% rated output power	
	Hiccup mode, auto recovery after fault removal	
	Constant current limiting, auto recovery	
Over Voltage	5.75 ~ 6.75V	DPSD60S-5
	14.2 ~ 16.2V	DPSD60S-12
	18.8 ~ 22.5V	DPSD60S-15
	30 ~ 36V	DPSD60S-24
	56.5 ~ 64.8V	DPSD60S-48
Protection Type	Shut down o/p voltage, re-power to recover	

Environment

Parameter	Value
Working Temp.	-20°C ~ +70°C
Working Humidity	20 ~ 90% RH non-condensing
Storage Temp.	-40°C ~ +85°C
Storage Humidity	10 ~ 95% RH non-condensing
Temp. Coefficient	±0.03%/°C (0 ~ 50°C)
Vibration	10 ~ 500Hz, 2G 10min/1cycle, 60min each axis
Operating Altitude	5000 meters
Over Voltage Category	II (EN62368-1, up to 2000m)
MTBF	900K hrs min. MIL-HDBK-217F (25°C)

Safety&EMC

Parameter	Value
Safety Regulations	UL62368-1, BS EN/EN62368-1
Withstand Voltage	I/P-O/P: 4KVAC
Insulation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH
EMC Emission	EN55032 Class B, EN/IEC 61000-3-2,3
EMC Immunity	EN61000-4-2,3,4,5,6,8,11

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ELECTRICAL SPECIFICATIONS

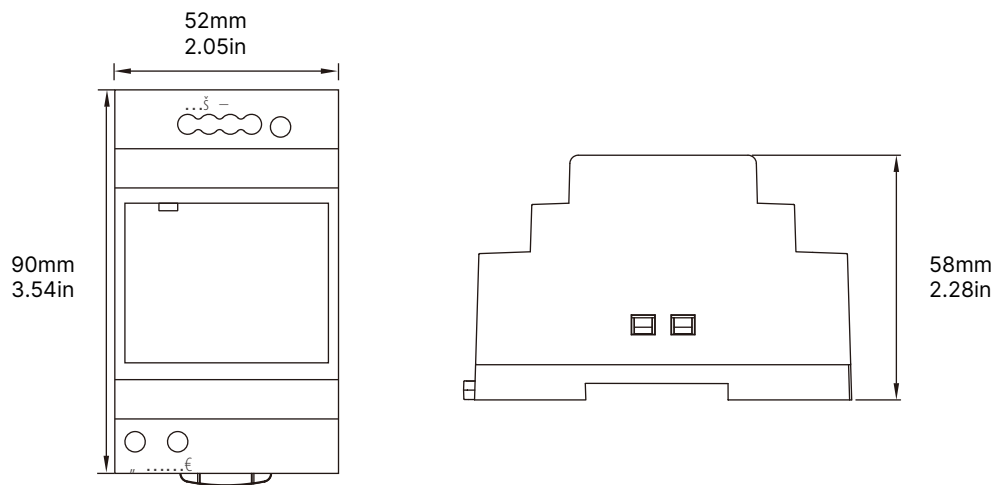
Dimensions and Weight

Parameter	Value
Length	52mm / 2.05in
Width	90mm / 3.54in
Height	58mm / 2.28in
Weight	190g

Packing

Parameter	Value
Carton Size	32.5 × 22 × 36 CM (12.8 × 8.66 × 14.17 in)
Master Carton Quantities	50 pcs / Carton

Dimensions and Installation



Input

No.	Description
1,2	-V
3,4	+V

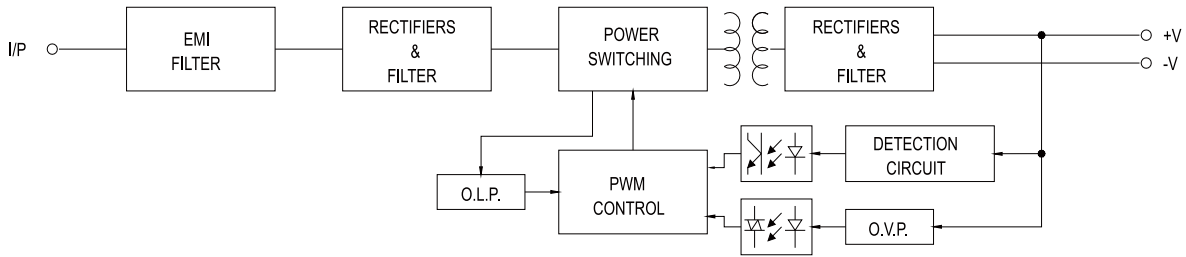
Output

No.	Description
5	AC/L
6	AC/N

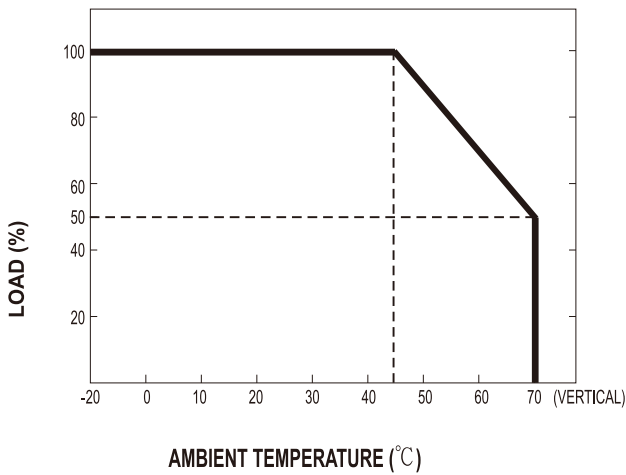
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MECHANICAL SPECIFICATIONS

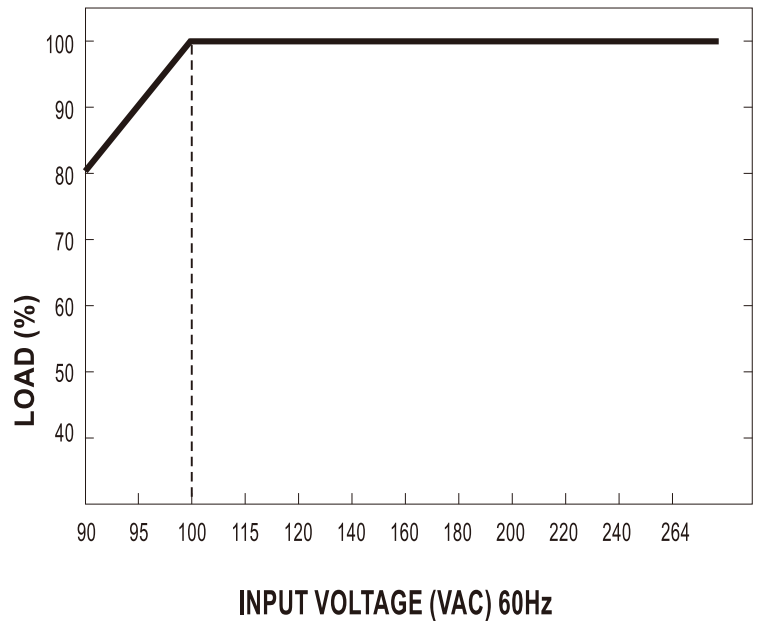
Block Diagram



Deduction Curve and Temperature



Minus Output and Input Voltage Curves



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