

# Altech Corp.®



Quality  
Endorsed  
Company



- ### Features
- Small size
  - Universal input
  - Three-year Warranty



Class II Isolation



## Low Profile Power Supplies

# PSD-15 Series

## FEATURES

- High Efficiency
- 100% Full Load Burn-In
- Low Ripple & Noise
- Adjustable DC Voltage Output
- Class II Isolation Level
- UL62368-1 and CAN / CSA C22.2
- Protections: Overload / Over Voltage / Short Circuit
- Three-year Warranty

**Low Profile**

- Small size
- Universal input
- Three-year Warranty



Input: 90-264V AC; 50/60HZ  
Output Voltage: 5V-48V DC  
Rated Power: 15W max.



## CATALOG NUMBER

PSD-1505

PSD-1512

PSD-1515

PSD-1524

PSD-1548

## INPUT

Input Voltage	90-264VAC				
Input Frequency	47-63Hz				
Inrush Current	25 Amps max. at 115VAC/60Hz, Full Load & 45Amps max. at 240VAC/50Hz, Full Load				
AC Current	0.5A/115VAC 0.25A/230VAC				
Leakage Current (MAX)	<0.25mA/240VAC				
Efficiency	79%	85%	85%	86%	87%

## OUTPUT

DC Voltage	5V	12V	15V	24V	48V
Rated Current	2A	1.25A	1A	0.63A	0.32A
Rated Power	10W	15W	15W	15W	15W
Ripple and Noise	80mVp-p	120mVp-p	120mVp-p	150mVp-p	240mVp-p
Line Regulation	±1%				
Load Regulation	±1%				
Setup, Rise, Hold Up Time	2S/ 80mS/ 15mS (115V/60HZ MAX ROAD); 1S/ 80mS/ 30mS (230V/50HZ MAX ROAD)				

## ENVIRONMENTAL

Operating Temperature	-20°C to 50°C, Full Load, Normal Operation
Storage Temperature	-40°C to 80°C
Storage Humidity	10 ~ 95% RH
Working Humidity	20% ~ 90% RH Non-Condensing

## PROTECTIONS

Overload Protection	>130%-200% Rated Output Power Protection type: Hiccup Mode- recovers automatically after fault condition is removed
Over Voltage Protection	110~145% Protection Type: Clamp by Zener diode
Short Circuit Protection	Protection to Zero Voltage
Over Current Protection	110%-180%

## SAFETY & EMC

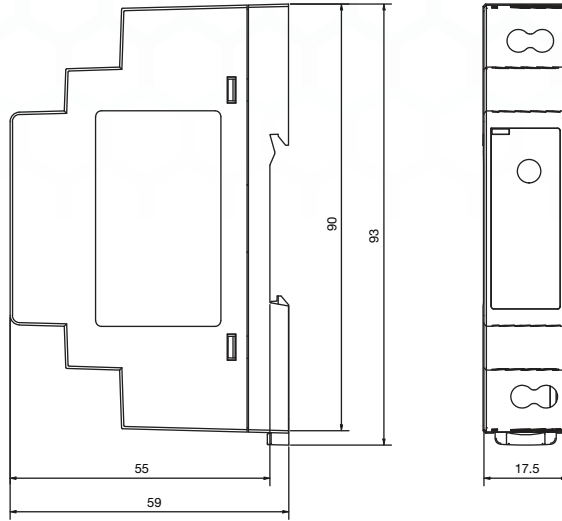
Safety Regulations	UL60950-1, UL508, BSMI CNS14336-1, TUV EN61558-2-16 IEC60950-1, EAC TPTC 004, TUV EN60950-1 UL62368-1 and CAN / CSA C22.2 No.62368-1-14
Withstand Voltage	I/P-O/P: 3KVAC
Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25 / 70% RH
EMC Emission	EN55032(CISPR32), CNS13438 Class B, EN61000-3-2 Class A, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN55024, EN55035, EN61000-6-2, EN61204-3

## OTHER

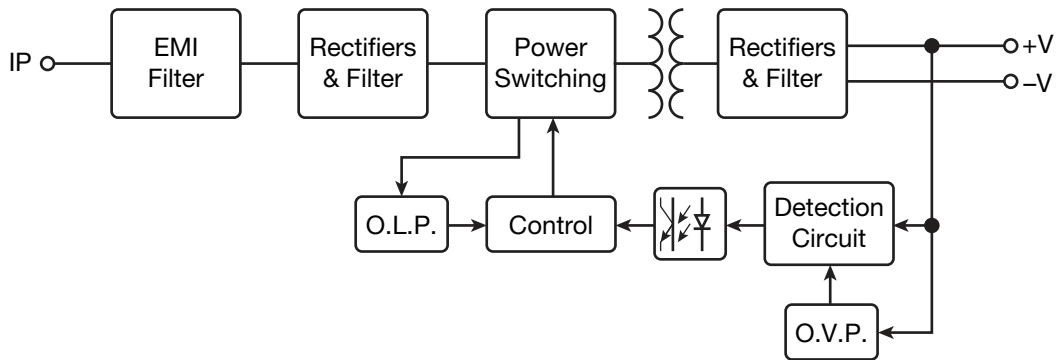
MTBF	200,000 Hours Minimum at Full Load at 25°C Ambient
Size	90 x 18 x 58mm
Weight	78g / pcs
Packaging	100PCS/CTN

## Mechanical Specification

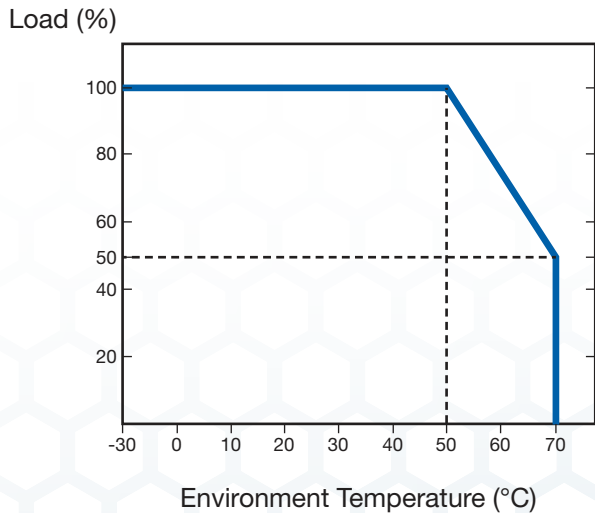
Pin #	Assignment	Pin #	Assignment
1	+V	3	AC / N
2	-V	4	AC / L



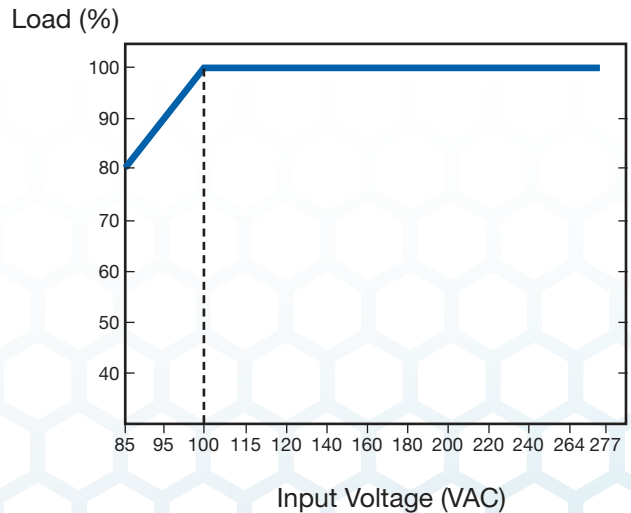
## Block Diagram



**Deduction Curve and Temperature:**



**Minus Output and Input Voltage Curves:**



# PSD-30 Series

## FEATURES

- High Efficiency
- 100% Full Load Burn-In
- Low Ripple & Noise
- Adjustable DC Voltage Output
- Class II Isolation Level
- UL62368-1 and CAN / CSA C22.2
- Protections: Overload / Over Voltage / Short Circuit
- Three-year Warranty

**Low Profile**

- Small size
- Universal input
- Three-year Warranty



Input: 90-264V AC; 50/60HZ  
 Output Voltage: 5V-48V DC  
 Rated Power: 30W max.



## CATALOG NUMBER

**PSD-3005**

**PSD-3012**

**PSD-3015**

**PSD-3024**

**PSD-3048**

### INPUT

Input Voltage	90-264VAC				
Input Frequency	47-63Hz				
Inrush Current	25 Amps max. at 115VAC/60Hz, Full Load & 45Amps max. at 240VAC/50Hz, Full Load				
AC Current	0.88A/115VAC 0.48A/230VAC				
Leakage Current (MAX)	<0.25mA/240VAC				
Efficiency	82%	88%	89%	89%	90%

### OUTPUT

DC Voltage	5V	12V	15V	24V	48V
Rated Current	3A	2A	2A	1A	0.6A
Rated Power	15W	24W	30W	24W	29W
Ripple and Noise	80mVp-p	120mVp-p	120mVp-p	150mVp-p	240mVp-p
Line Regulation	±1%				
Load Regulation	±1%				
Setup, Rise, Hold Up Time	500mS/ 50mS/ 12mS (115V/60HZ MAX ROAD) 500mS/ 50mS/ 30mS (230V/50HZ MAX ROAD)				

### ENVIRONMENTAL

Operating Temperature	-20°C to 50°C, Full Load, Normal Operation
Storage Temperature	-40°C to 80°C
Storage Humidity	10 ~ 95% RH
Working Humidity	20% ~ 90% RH Non-Condensing

### PROTECTIONS

Overload Protection	>130%-200% Rated Output Power Protection type: Hiccup Mode- recovers automatically after fault condition is removed
Over Voltage Protection	110~145% Protection Type: Clamp by Zener diode
Short Circuit Protection	Protection to Zero Voltage
Over Current Protection	110%-180%

### SAFETY & EMC

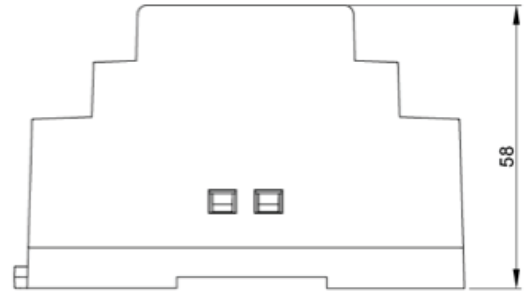
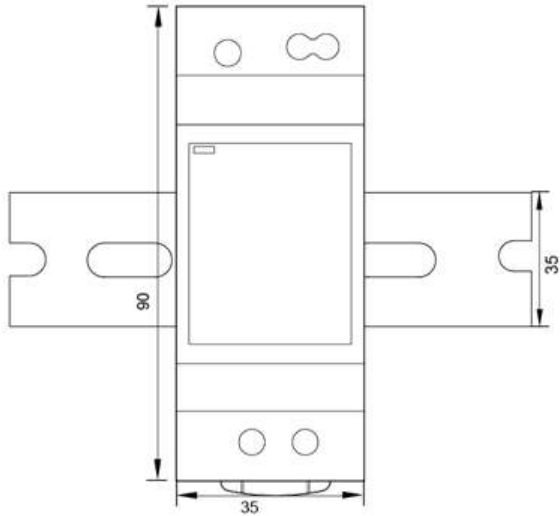
Safety Regulations	UL60950-1, UL508, BSMI CNS14336-1, TUV EN61558-2-16 IEC60950-1, EAC TPTC 004, TUV EN60950-1 UL62368-1 and CAN / CSA C22.2 No.62368-1-14
Withstand Voltage	I/P-O/P: 3KVAC
Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25 / 70% RH
EMC Emission	EN55032 (CISPR32), CNS13438 Class B, EN61000-3-2 Class A, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN55024, EN55035, EN61000-6-2, EN61204-3

### OTHER

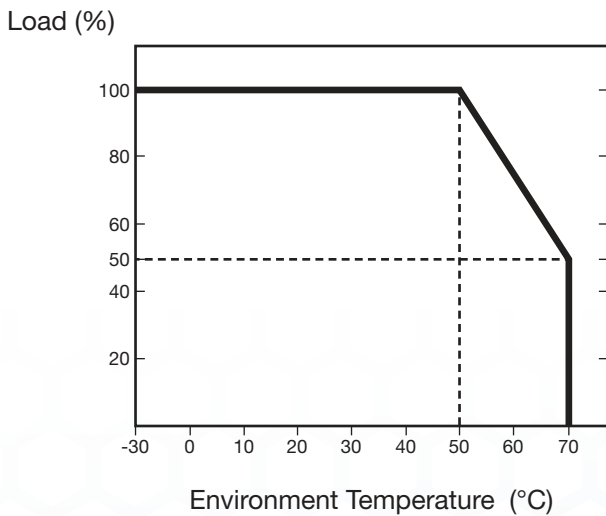
MTBF	200,000 Hours Minimum at Full Load at 25°C Ambient
Size	90 x 35 x 58mm
Weight	120g / pcs
Packaging	100PCS/CTN

For the latest on Altech Power Supply specifications please visit [www.altechcorp.com/power](http://www.altechcorp.com/power).

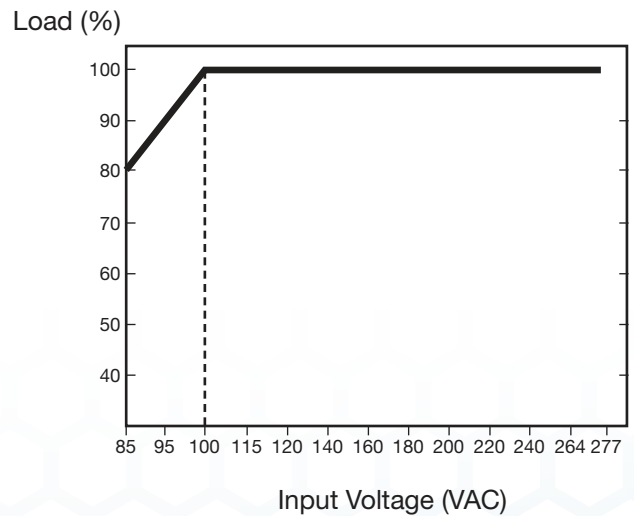
### Dimensions and Installation:



### Deduction Curve and Temperature:



### Minus Output and Input Voltage Curves:





# PSD-60 Series

## FEATURES

- High Efficiency
- 100% Full Load Burn-In
- Low Ripple & Noise
- Adjustable DC Voltage Output
- Class II Isolation Level
- UL62368-1 and CAN / CSA C22.2
- Protections: Overload / Over Voltage / Short Circuit
- Three-year Warranty

## Low Profile

- Small size
- Universal input
- Three-year Warranty



Input: 90-264V AC; 50/60HZ  
Output Voltage: 5V-48V DC  
Rated Power: 60W max.



## CATALOG NUMBER

**PSD-6005**

**PSD-6012**

**PSD-6015**

**PSD-6024**

**PSD-6048**

## INPUT

INPUT	Input Voltage	90-264VAC				
	Input Frequency	47-63Hz				
	Inrush Current	30Amps max. at 115VAC/60Hz, Full Load & 60Amps max. at 240VAC/50Hz, Full Load				
	AC Current	1.2A/115VAC 0.8A/230VAC				
	Leakage Current (MAX)	<0.25mA/240VAC				
	Efficiency	85%	88%	89%	90%	91%

## OUTPUT

DC Voltage	5V	12V	15V	24V	48V
Rated Current	4.5A	4.5A	4A	2.5A	1.25A
Rated Power	23W	54W	60W	60W	60W
Ripple and Noise	80mVp-p	120mVp-p	120mVp-p	150mVp-p	240mVp-p
Line Regulation	±1%				
Load Regulation	±1%				
Setup, Rise, Hold Up Time	500mS/ 80mS/ 12mS (115V/60HZ MAX ROAD) 500mS/ 80mS/ 30mS (230V/50HZ MAX ROAD)				

## ENVIRONMENTAL

Operating Temperature	-20°C to 50°C, Full Load, Normal Operation
Storage Temperature	-40°C to 80°C
Storage Humidity	10 ~ 95% RH
Working Humidity	20% ~ 90% RH Non-Condensing

## PROTECTIONS

Overload Protection	>130%-200% Rated Output Power Protection type: Hiccup Mode- recovers automatically after fault condition is removed
Over Voltage Protection	110~145% Protection Type: Clamp by Zener diode
Short Circuit Protection	Protection to Zero Voltage
Over Current Protection	110%-180%

## SAFETY & EMC

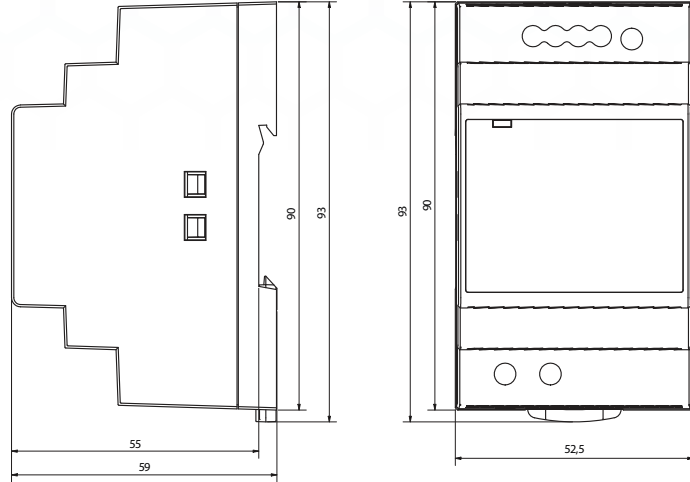
Safety Regulations	UL60950-1, UL508, BSMI CNS14336-1, TUV EN61558-2-16 IEC60950-1, EAC TPTC 004, TUV EN60950-1 UL62368-1 and CAN / CSA C22.2 No.62368-1-14
Withstand Voltage	I/P-O/P: 3KVAC
Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25 / 70% RH
EMC Emission	EN55032 (CISPR32), CNS13438 Class B, EN61000-3-2 Class A, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN55024, EN55035, EN61000-6-2, EN61204-3

## OTHER

MTBF	200,000 Hours Minimum at Full Load at 25°C Ambient
Size	90 x 52.5 x 58mm
Weight	190g / pcs
Packaging	100PCS/CTN

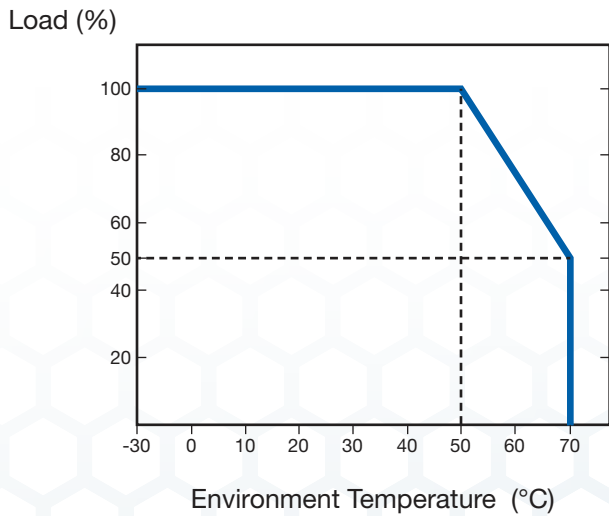
For the latest on Altech Power Supply specifications please visit [www.altechcorp.com/power](http://www.altechcorp.com/power).

## Mechanical Specification

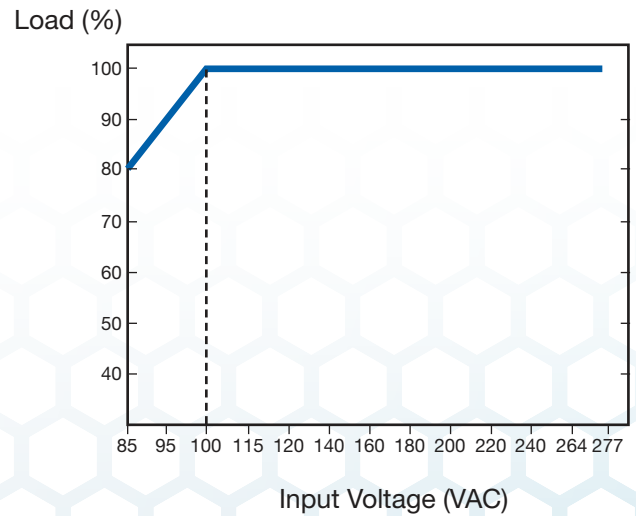


## Block Diagram

**Deduction Curve and Temperature:**



**Minus Output and Input Voltage Curves:**



# PSD-100 Series

## FEATURES

- High Efficiency
- 100% Full Load Burn-In
- Low Ripple & Noise
- Adjustable DC Voltage Output
- Class II Isolation Level
- UL62368-1 and CAN / CSA C22.2
- Protections: Overload / Over Voltage / Short Circuit
- Three-year Warranty

**Low Profile**

- Small size
- Universal input
- Three-year Warranty



Input: 90-264V AC; 50/60HZ  
Output Voltage: 5V-48V DC  
Rated Power: 100W max.



## CATALOG NUMBER

**PSD-10012**

**PSD-10015**

**PSD-10024**

**PSD-10048**

## INPUT

Input Voltage	90-264VAC			
Input Frequency	47-63Hz			
Inrush Current	35Amps max. at 115VAC/60Hz, Full Load & 70Amps max. at 240VAC/50Hz, Full Load			
AC Current	3A/115VAC 1.6A/230VAC			
Leakage Current (MAX)	<0.25mA/240VAC			
Efficiency	88%	89%	90%	90%

## OUTPUT

DC Voltage	12V	15V	24V	48V
Rated Current	7.1A	6.13A	3.8A	2.1A
Rated Power	86W	92W	91W	100W
Ripple and Noise	120mVp-p	120mVp-p	150mVp-p	240mVp-p
Line Regulation	±1%			
Load Regulation	±1%			
Setup, Rise, Hold Up Time	500mS/ 60mS/ 12mS (115V/60HZ MAX ROAD) 500mS/ 60mS/ 30mS (230V/50HZ MAX ROAD)			

## ENVIRONMENTAL

Operating Temperature	-20°C to 50°C, Full Load, Normal Operation.
Storage Temperature	-40°C to 80°C
Storage Humidity	10 ~ 95% RH
Working Humidity	20% ~ 90% RH Non-Condensing

## PROTECTIONS

Overload Protection	>130%-200% Rated Output Power Protection type: Hiccup Mode- recovers automatically after fault condition is removed
Over Voltage Protection	110~145% Protection Type: Clamp by Zener diode
Short Circuit Protection	Protection to Zero Voltage
Over Current Protection	110%-180%

## SAFETY & EMC

Safety Regulations	UL60950-1, UL508, BSMI CNS14336-1, TUV EN61558-2-16 IEC60950-1, EAC TPTC 004, TUV EN60950-1 UL62368-1 and CAN / CSA C22.2 No.62368-1-14
Withstand Voltage	I/P-O/P: 3KVAC
Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25 / 70% RH
EMC Emission	EN55032 (CISPR32), CNS13438 Class B, EN61000-3-2 Class A, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN55024, EN55035, EN61000-6-2, EN61204-3

## OTHER

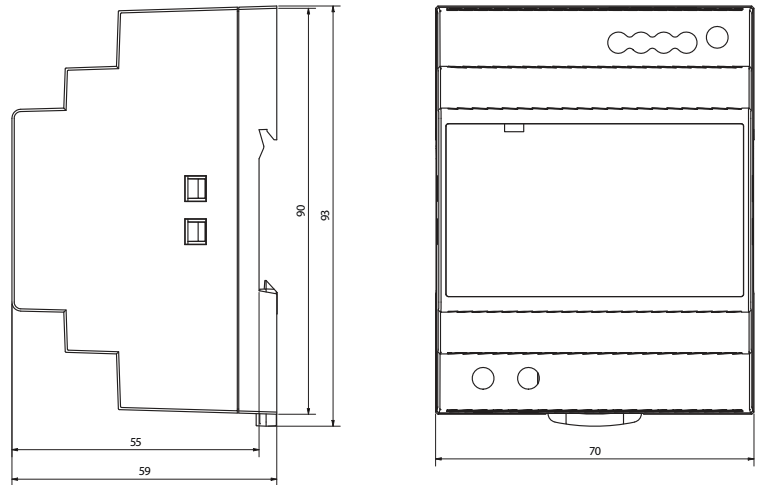
MTBF	200,000 Hours Minimum at Full Load at 25°C Ambient
Size	90 x 70 x 58mm
Weight	270g / pcs
Packaging	50 PCS/CTN

For the latest on Altech Power Supply specifications please visit [www.altechcorp.com/power](http://www.altechcorp.com/power).

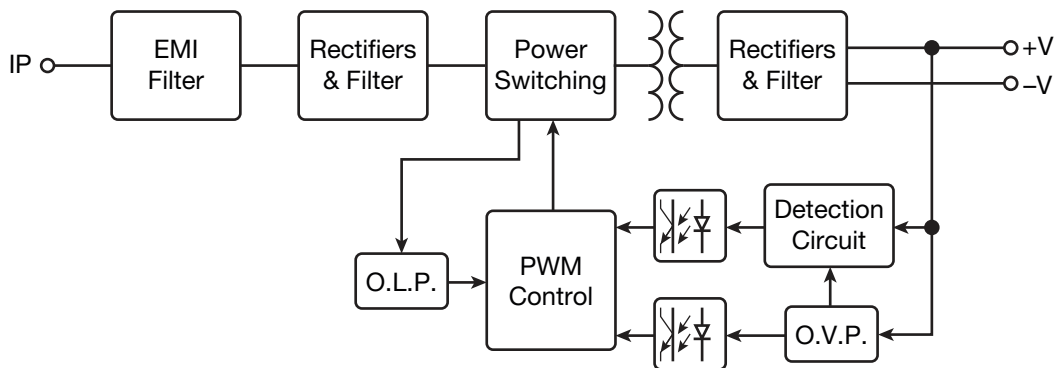


## Mechanical Specification

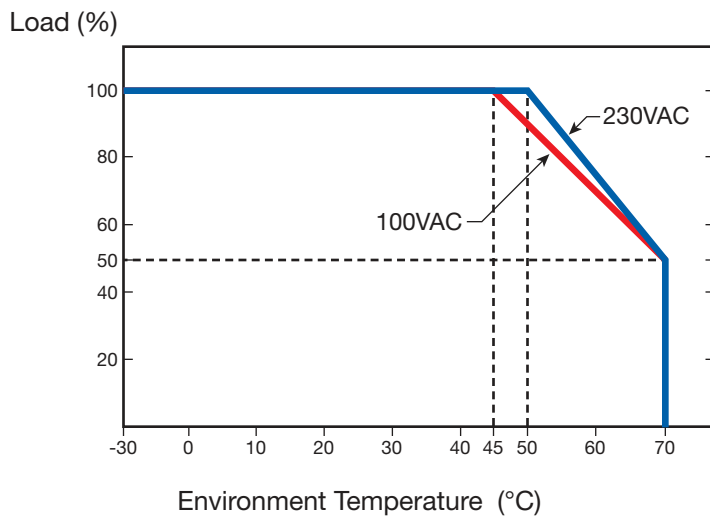
Pin #	Assignment	Pin #	Assignment
1,2	-V	5	AC / L
3,4	+V	6	AC / N
O	Voltage adjuster		



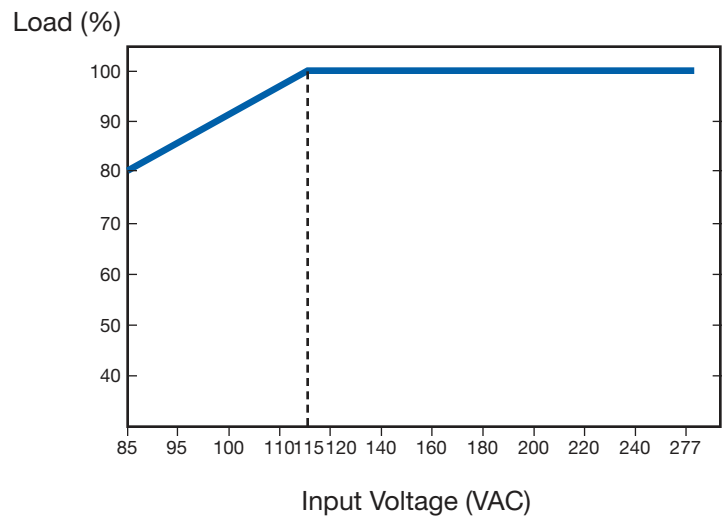
## Block Diagram



**Deduction Curve and Temperature:**



**Minus Output and Input Voltage Curves:**





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