

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

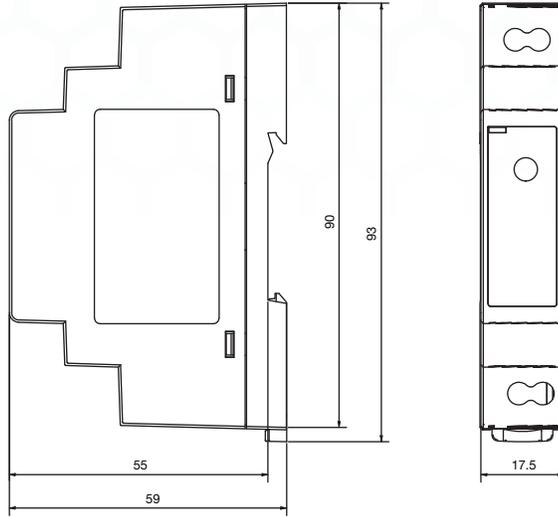
Safety Regulations	UL60950-1, UL508, BSMI CNS14336-1, TUV EN61558-2-16 IEC60950-1, EAC TPTC 004, TUV EN60950-1 UL62368-1 and CAN / CSA C22.2 No.62368-1-14
Withstand Voltage	I/P-O/P: 3KVAC
Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25 / 70% RH
EMC Emission	EN55032(CISPR32), CNS13438 Class B, EN61000-3-2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

OTHER

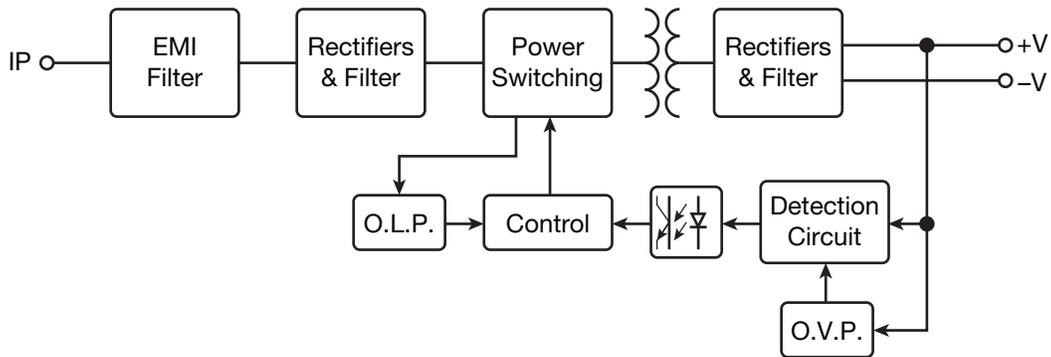
MTBF	200,000 Hours Minimum at Full Load at 25°C Ambient
Size	90 x 18 x 58mm
Weight	78g / pcs
Packaging	100PCS/CTN

Mechanical Specification

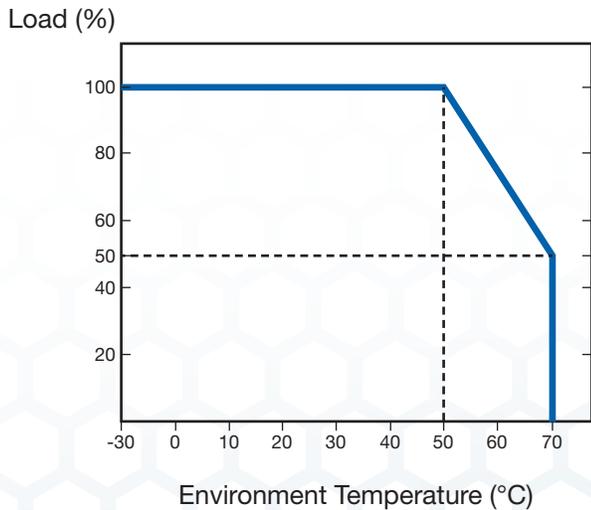
Pin #	Assignment	Pin #	Assignment
1	+V	3	AC / N
2	-V	4	AC / L



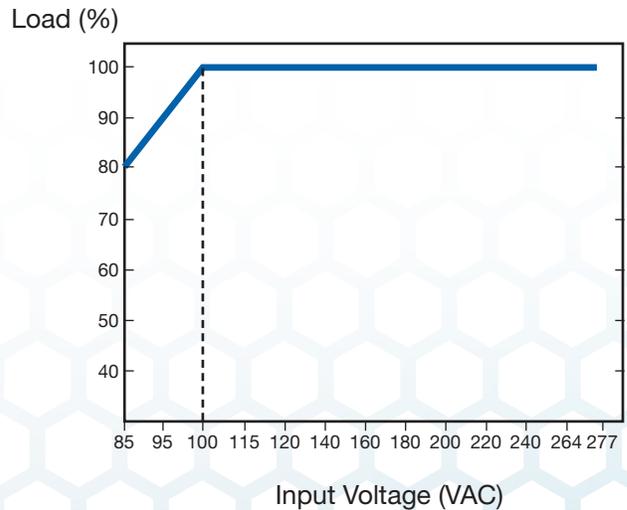
Block Diagram



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

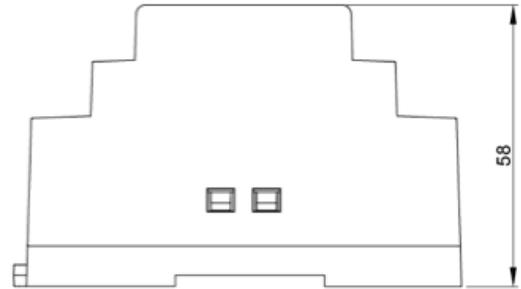
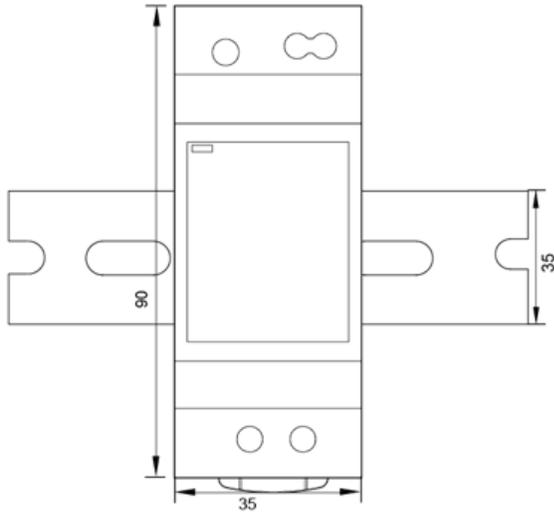
Safety Regulations	UL60950-1, UL508, BSMI CNS14336-1, TUV EN61558-2-16 IEC60950-1, EAC TPTC 004, TUV EN60950-1 UL62368-1 and CAN / CSA C22.2 No.62368-1-14
Withstand Voltage	I/P-O/P: 3KVAC
Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25 / 70% RH
EMC Emission	EN55032 (CISPR32), CNS13438 Class B,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

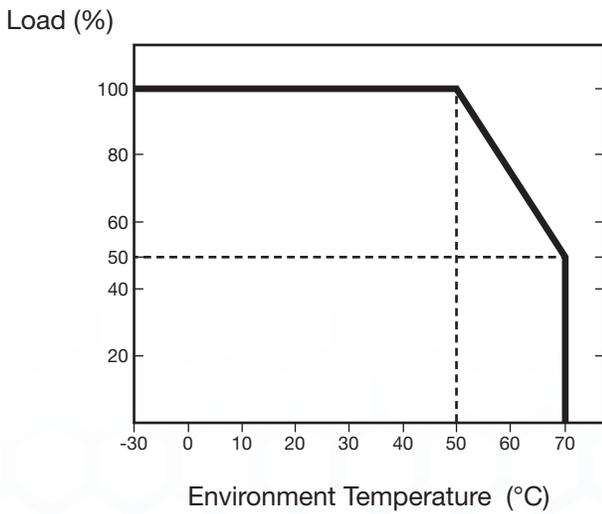
MTBF	200,000 Hours Minimum at Full Load at 25°C Ambient
Size	90 x 35 x 58mm
Weight	120g / pcs
Packaging	100PCS/CTN

For the latest on Altech Power Supply specifications please visit www.altechcorp.com/power.

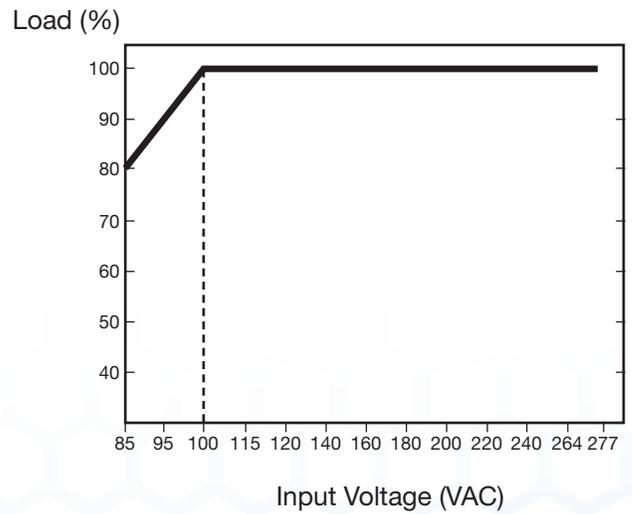
Dimensions and Installation:



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

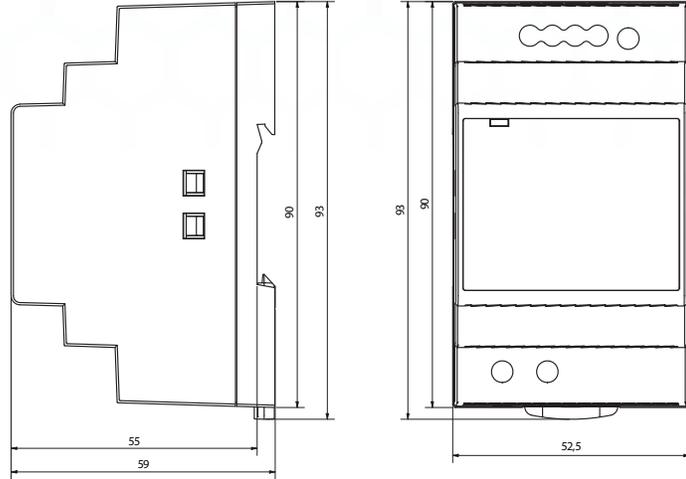
Safety Regulations	UL60950-1, UL508, BSMI CNS14336-1, TUV EN61558-2-16 IEC60950-1, EAC TPTC 004, TUV EN60950-1 UL62368-1 and CAN / CSA C22.2 No.62368-1-14
Withstand Voltage	I/P-O/P: 3KVAC
Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25 / 70% RH
EMC Emission	EN55032 (CISPR32), CNS13438 Class B,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

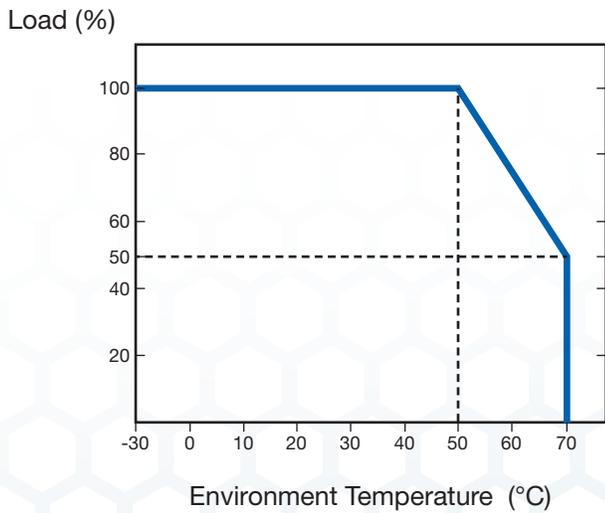
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Mechanical Specification

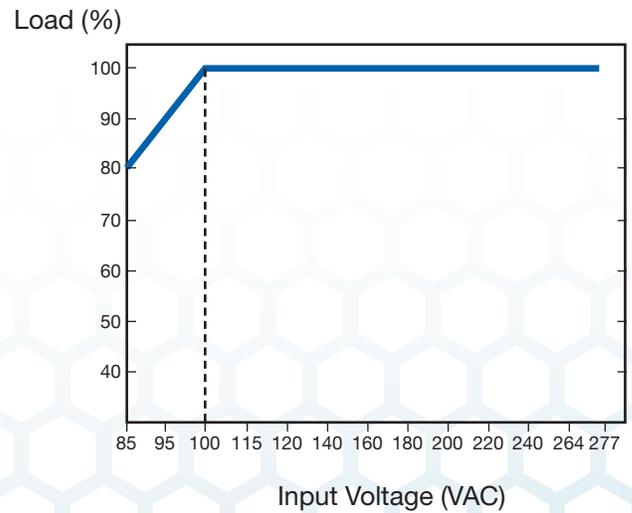


Block Diagram

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

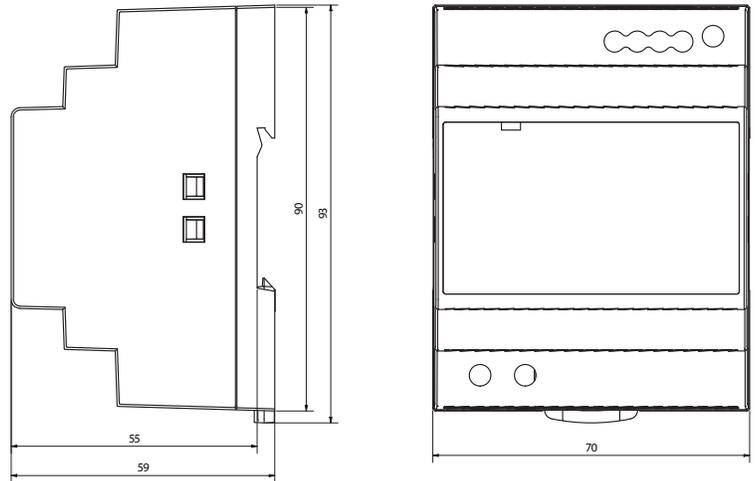
OTHER

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

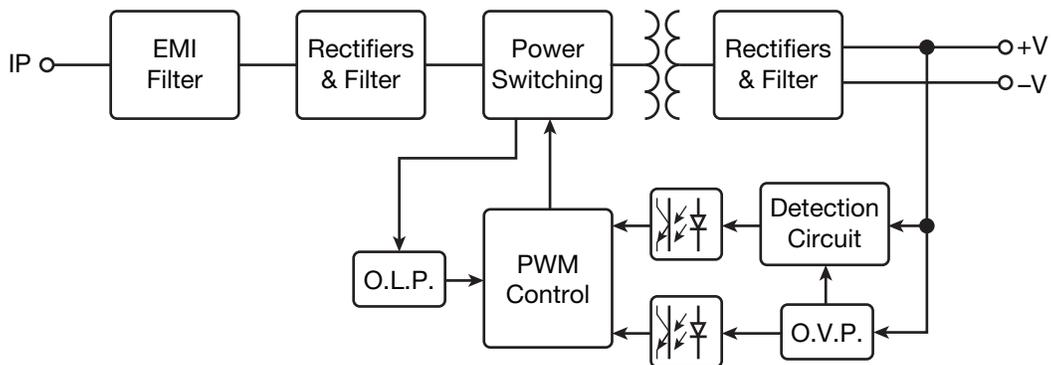
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Mechanical Specification

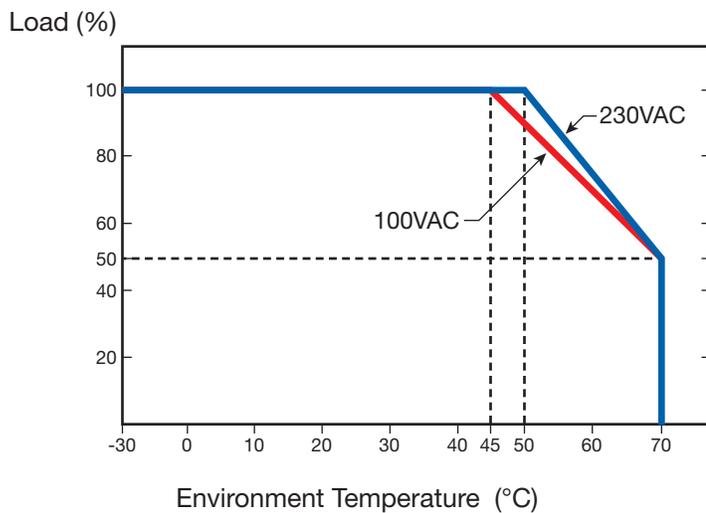
Pin #	Assignment	Pin #	Assignment
1,2	-V	5	AC / L
3,4	+V	6	AC / N
O	Voltage adjuster		



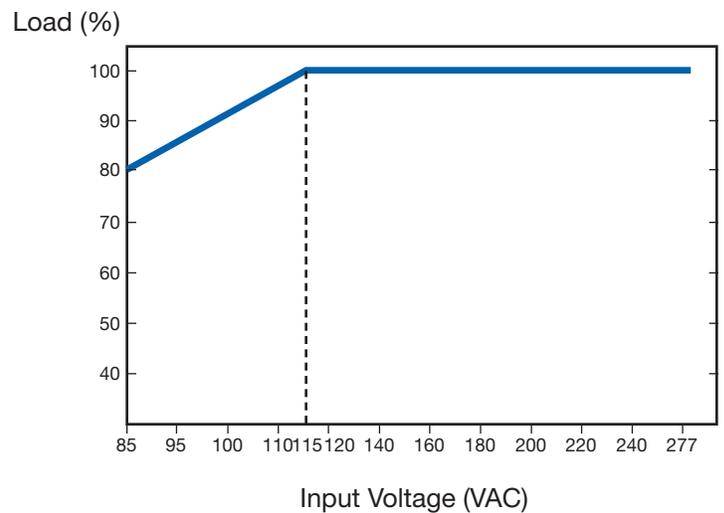
Block Diagram



Deduction Curve and Temperature:



Minus Output and Input Voltage Curves:





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- Enclosures >
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- Foot Switches
- Interface Modules >
- Panel Accessories
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- Programmable Controllers
- Push Buttons & Pilot Lights >
- Relays >
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- Standard Switches >
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- Terminal Blocks >
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- Tower Lights

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Altech



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CIRCUIT PROTECTION

	Circuit Protection Devices		Busbar & Power Distribution		Contactors, Overload Relays, Manual Motor Starters		Motor Disconnect Switches		European Fuses & Holders
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CONNECTORS

	Pin & Sleeve Devices		Receptacles
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ENCLOSURES

	Industrial & ATEX Enclosures		DIN Enclosures		Control Enclosures and Suspension Systems
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FOOT SWITCHES

	Industrial		Medical
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MODULES & RELAYS

	Interface Modules		Safety Relays		Industrial & Slimline Relays
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PANEL ACCESSORIES

	Panel Lights		Heaters, Filters & Thermostats
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SPARE PARTS

	European Spare Parts
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PILOT DEVICES

	22 & 30 mm Push Buttons & Enclosures		Pilot Lights & E-Stops
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POWER DEVICES

	Power Supplies		DC-UPS & Battery Chargers
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POWER MANAGEMENT

	Altech Smart Relays		Digital Panel Meters		Digital Timers
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SAFETY SWITCHES

	Keyed Safety Switches		Keyed Solenoid Locking Switches		Hinged Safety Switches		Non-Contact Safety Switches		Safety Rope Pull Switches
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STANDARD SWITCHES

	Limit Switches		Foot Switches
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SENSORS

	Cylindrical & Capacitive		Flat Pack & Ring		Metal Detection
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