



Low Profile Single Phase Power Supply (Class II)

The Low Profile Single Phase Power Supplies are 15W to 100W single output Class II DIN rail switching power supplies. They are designed for the fast growing demand of the DIN rail application with limited enclosure height. With Class II of protection level, low profile series provide users a safer operating environment since the whole plastic case is free from hazardous leakage current. Featuring up to 89% of high efficiency, this series can be cooled by only free air convection that significantly increase the reliability and lifetime of the power supply. Complying with the safety of the UL508 and EMC requirements of EN50178 which is mainly for power distribution aspects, the low profile switching power supplies are suitable to be installed in a power distribution box or a control cabinet and the major application fields are building automation and household appliance control.

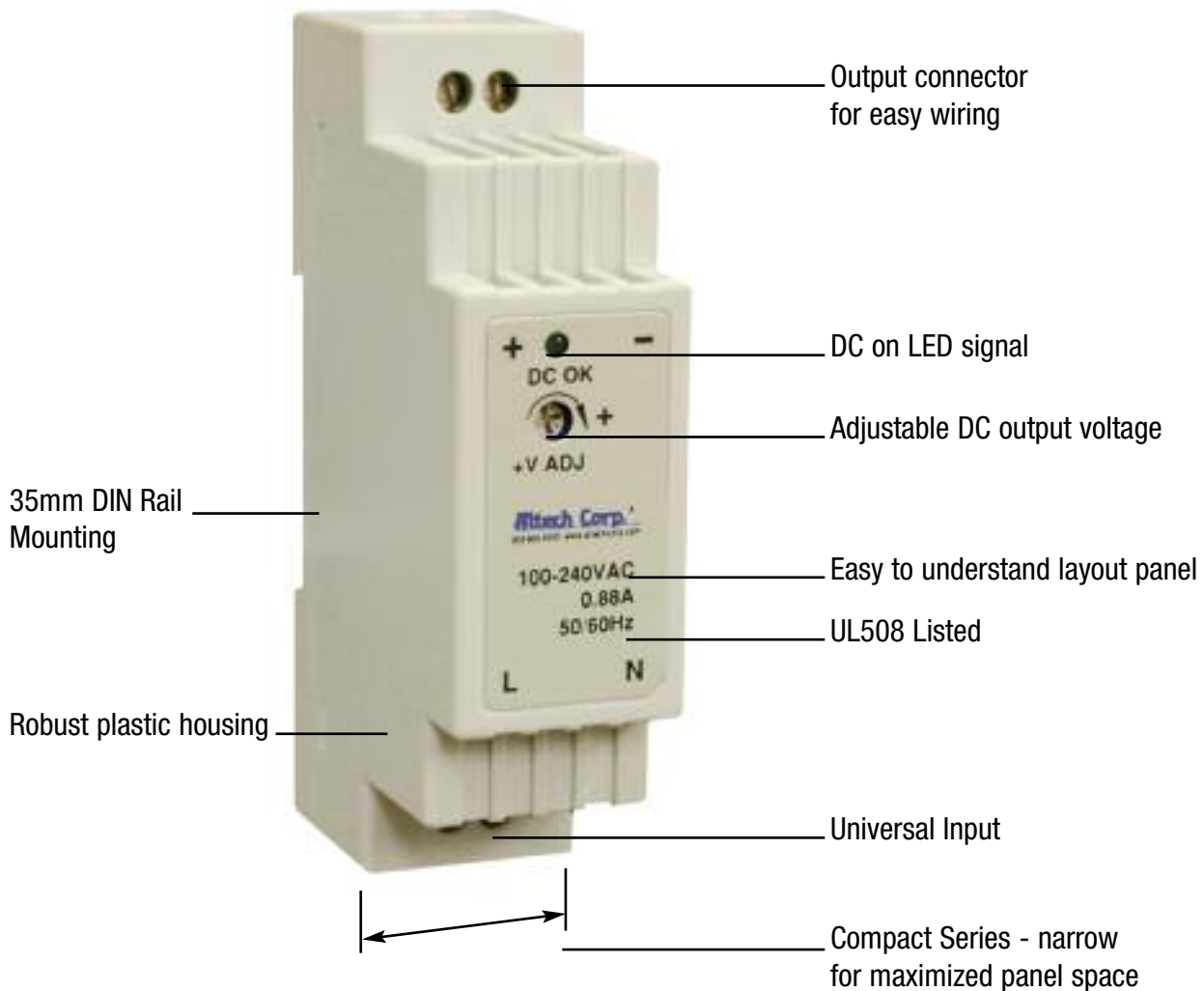
- Input voltage range: 85 - 264V AC; 120-370V DC
- AC inrush current: Cold start: 15A at 115V AC, 30A at 230V DC (PS-30xx)
- DC adjustment range: $\pm 10\%$ rated output voltage
- Overload protection: 105% - 160% constant current limiting, auto-recovery
- Over-voltage protection: 115% - 135% rated output voltage
- Setup, rise, hold up time: 100ms, 30ms, 100ms at full load and 230V AC (PS-30xx)
- Withstand voltage: I/P-O/P:3KV AC, I/P-FG:1.5KV AC
- Working temperature: -20 to +50°C (-4° to +122°F) at 100%
and +60°C (+140°F) at 80% load
- Safety standards: UL60950-1, UL508
- EMC standards: EN55022 class B
EN61000-4-2,3,4,5,6,8,11
ENV50204
EN61204-3
- Military Standard: MIL-HDBK-217K

PS Series - Low Profile



Features:

- Universal AC input/Full range
- Protections: Short circuit / Overload / Overvoltage
- Cooling by free air convection
- DIN rail mountable
- Isolation class II
- LED indicator for power on
- 100% full load burn-in test
- 3 year warranty



15-100W Low Profile POWER SUPPLIES



15W Single Output Class II DIN Rail Power Supply



Cat. No.	Output		Tol. %	Ripple & Noise	Efficiency	NOTES
	V DC	A				
PS-1505	5V DC	2.4A	±2%	80 mVp-p	77%	
PS-1512	12V DC	1.25A	±1%	120 mVp-p	84%	
PS-1515	15V DC	1A	±1%	120 mVp-p	83.5%	
PS-1524	24V DC	0.63A	±1%	150 mVp-p	85%	



30W Single Output Class II DIN Rail Power Supply

Cat. No.	Output		Tol. %	Ripple & Noise	Efficiency	NOTES
	V DC	A				
PS-3005	5V DC	3A	±2%	80 mVp-p	74%	
PS-3012	12V DC	2A	±1%	120 mVp-p	81%	
PS-3015	15V DC	2A	±1%	120 mVp-p	82%	
PS-3024	24V DC	1.5A	±1%	150 mVp-p	83%	

45W Single Output Class II DIN Rail Power Supply



Cat. No.	Output		Tol. %	Ripple & Noise	Efficiency	NOTES
	V DC	A				
PS-4505	5V DC	5A	±2%	100 mVp-p	72%	
PS-4512	12V DC	3.5A	±1%	200 mVp-p	77%	
PS-4515	15V DC	2.8A	±1%	240 mVp-p	77%	
PS-4524	24V DC	2A	±1%	480 mVp-p	80%	

60W Single Output Class II DIN Rail Power Supply



Cat. No.	Output		Tol. %	Ripple & Noise	Efficiency	NOTES
	V DC	A				
PS-6005	5V DC	6.5A	±2%	80 mVp-p	76%	
PS-6012	12V DC	4.5A	±1%	120 mVp-p	82%	
PS-6015	15V DC	4.0A	±1%	120 mVp-p	83%	
PS-6024	24V DC	2.5A	±1%	150 mVp-p	84%	

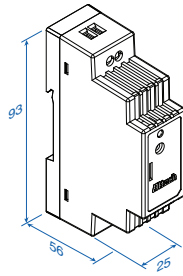
100W Single Output Class II DIN Rail Power Supply



Cat. No.	Output		Tol. %	Ripple & Noise	Efficiency	NOTES
	V DC	A				
PS-10012	12V DC	7.5A	±2%	120 mVp-p	87%	
PS-10015	15V DC	6.5A	±1%	120 mVp-p	87%	
PS-10024	24V DC	4.2A	±1%	150 mVp-p	89%	

SPECIFICATIONS

PS-15 Series



Terminal Pin. No Assignment

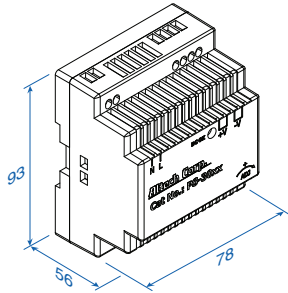
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	3	-V
2	AC/N	4	+V

Universal Input: 85-264V AC, 120-370V DC full range;
0.88A @ 115V AC; 0.48A @ 230V AC

Connection: Input - 2 poles, Output - 2 poles, single screw terminal
Size (WxHxD): 25x93x56mm (0.98x3.66x2.20 inches)

Packaging: 1/box; 0.22lbs / 0.1Kg

PS-30 Series



Terminal Pin. No Assignment

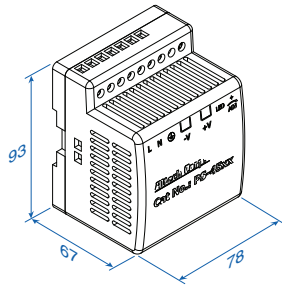
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	5,6	-V
2	AC/N	7	LED
3,4	+V	8	+V ADJ.

Universal Input: 85-264V AC, 120-370V DC full range;
0.88A @ 115V AC; 0.48A @ 230V AC

Connection: Input - 2 poles, Output - 2 poles, double screw terminal
Size (WxHxD): 78x93x56mm (3.07x3.66x2.20 inches)

Packaging: 1/box; 0.60lbs / 0.27Kg

PS-45 Series



Terminal Pin. No Assignment

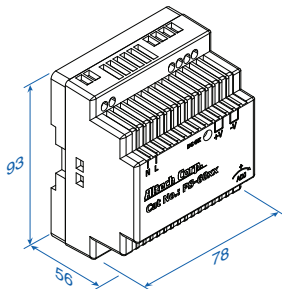
Pin	Assignment	Pin	Assignment
1	AC/L	6,7	DC OUTPUT+V
2	AC/N	8	LED
3	FG ⊕	9	+V ADJ.
4,5	DC OUTPUT-V		

Universal Input: 85-264V AC, 120-370V DC full range;
1.5A @ 115V AC, 0.75A @ 230V AC

Connection: Input - 3 poles, Output - 2 poles, double screw terminal
Size (WxHxD): 78x93x67mm (3.07x3.66x2.64 inches)

Packaging: 1/box; 0.68lbs / 0.31Kg

PS-60 Series



Terminal Pin. No Assignment

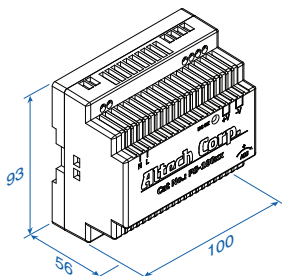
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	5,6	-V
2	AC/N	7	LED
3,4	+V	8	+V ADJ.

Universal Input: 88-264V AC, 124-370V DC full range;
1.2A @ 115V AC, 0.8A @ 230V AC

Connection: Input - 2 poles, Output - 2 poles, double screw terminal
Size (WxHxD): 78x93x56mm (3.07x3.66x2.20 inches)

Packaging: 1/box; 0.66lbs / 0.30Kg

PS-100 Series



Terminal Pin. No Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	5,6	-V
2	AC/N	7	LED
3,4	+V	8	+V ADJ.

Universal Input: 88-264V AC, 124-370V DC full range;
3A @ 115V AC, 1.6A @ 230V AC

Connection: Input - 2 poles, Output - 2 poles, double screw terminal
Size (WxHxD): 100x93x56mm (3.94x3.66x2.20 inches)

Packaging: 1/box; 0.77lbs / 0.35Kg



PS-15 Series

Specifications



Features:

- Universal AC input / full range
- Protections: Short Circuit / Overload / Over Voltage
- Cooling by free air convection
- DIN rail mountable
- Isolation class II
- LED indicator for power on
- No load power consumption <0.5W
- 100% full load burn-in test
- 3 year warranty

OUTPUT

Cat. No.	PS-1505	PS-1512	PS-1515	PS-1524
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DC VOLTAGE	5V	12V	15V	24V
RATED CURRENT	2.4A	1.25A	1A	0.63A
CURRENT RANGE	0 ~ 2.4A	0 ~ 1.25A	0 ~ 1A	0 ~ 0.63A
RATED POWER	12W	15W	15W	15.2W
RIPPLE & NOISE (max)	80mVp-p	120mVp-p	120mVp-p	150mVp-p

Ripple & noise are measured at 20MHz of bandwidth by using a 12 twisted pair-wire terminated with a 0.1µF & 47µF parallel capacitor

VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V
VOLTAGE TOLERANCE	±2.0%	±1.0%	±1.0%	±1.0%

Tolerance: includes set up tolerance, line regulation and load regulation.

LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%

SETUP, RISE TIME	1000ms, 50ms / 230VAC	1000ms, 50ms / 115VAC at full load		
HOLD UP TIME (Typ.)	70ms / 230VAC	16ms / 115VAC at full load		

INPUT

VOLTAGE RANGE	85 ~ 264VAC	120 ~ 370VDC		
FREQUENCY RANGE	47 ~ 63Hz			
EFFICIENCY (Typ.)	77%	84%	83.50%	85%
AC CURRENT (max.)	0.88A / 115VAC	0.48A / 230VAC		
INRUSH CURRENT (Typ.)	COLD START 35A / 115VAC	65A / 230VAC		

PROTECTION

OVERLOAD	105 ~ 160% rated output power			
	Protection type: Constant current limiting recovers automatically after fault condition is removed (Hiccup mode)			
	Constant current operation region is within 60 ~ 100% rated output voltage.			

OVERVOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V
	Protection type: Shut down overvoltage, clamping by zener diode			

ENVIRONMENT

WORKING TEMP.	-20 ~ +60°C (Refer to output load derating curve)			
WORKING HUMIDITY	20 ~ 90% RH non-condensing			
STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH			
TEMP. COEFFICIENT	±0.03% / °C (0 ~ 50°C)			
VIBRATION	Component: 10 ~ 500Hz, 2G 10min. / 1 cycle, 60 min. each long X,Y, Z axes			
MOUNTING	Compliance to IEC60068-2-6			

SAFETY & EMC

SAFETY STANDARDS	UL60950-1 EN60950-1 compliant Design refer to EN50178			
WITHSTAND VOLTAGE	I/P-O/P: 3KVAC			
ISOLATION RESISTANCE	I/P-O/P: 100M Ohms/500VDC (25°C; 70% RH)			
EMI CONDUCTION & RADIATION	Compliance to EN55011 EN55022 (CISPR22); EN61204-3 Class B			
HARMONIC CURRENT	Compliance to EN61000-3-2,-3			
EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN55024; ENV50204; EN61000-6-2; EN61204-3; heavy industry level; criteria A			
	The power supply is considered a component which will installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.			

OTHERS

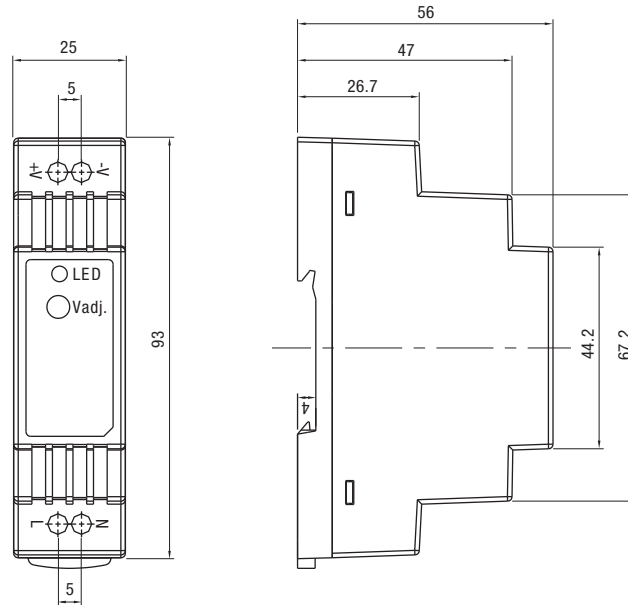
MTBF	1172.3K hrs min.	MIL-HDBK-217K (25°C)
DIMENSION	25x93x56mm (WxHxD)	
PACKING	0.1Kg; 140pcs / 15Kg / 0.92CUFT	

All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C of ambient temperature

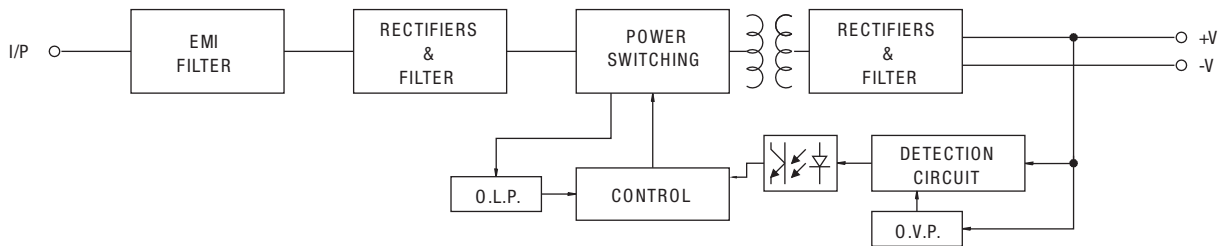
Mechanical Specification

Terminal Pin. No Assignment

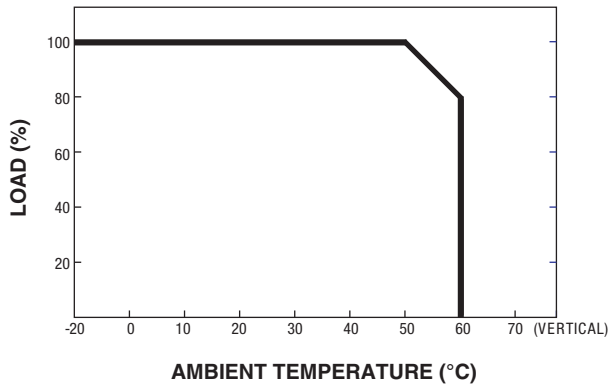
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	3	-V
2	AC/N	4	+V



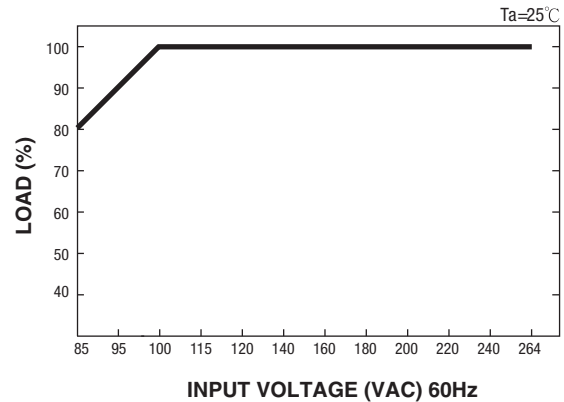
Block Diagram



Derating Curve



Output Derating VS Input Voltage



Note: All dimensions are in millimeters, to convert to inches multiply by 0.03937.



PS-30 Series Specifications



Features:

- Universal AC input/ full range
- Protections: Short Circuit / Overload / Over Voltage
- Cooling by free air convection
- DIN rail mountable
- Isolation class II
- LED indicator for power on
- 100% full load burn-in test
- 3 year warranty

OUTPUT

Cat. No.	PS-3005	PS-3012	PS-3015	PS-3024
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DC VOLTAGE	5V	12V	15V	24V
RATED CURRENT	3A	2A	2A	1.5A
CURRENT RANGE	0 ~ 3A	0 ~ 2A	0 ~ 2A	0 ~ 1.5A
RATED POWER	15W	24W	30W	36W
RIPPLE & NOISE (max)	80mVp-p	120mVp-p	120mVp-p	150mVp-p

Ripple & noise are measured at 20MHz of bandwidth by using a 12 twisted pair-wire terminated with a 0.1µF & 47µF parallel capacitor

VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V
VOLTAGE TOLERANCE	±2.0%	±1.0%	±1.0%	±1.0%

Tolerance: includes set up tolerance, line regulation and load regulation.

LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%

SETUP, RISE TIME	100ms, 30ms / 230VAC	100ms, 30ms / 115VAC at full load		
HOLD UP TIME (Typ.)	100ms / 230VAC	21ms / 115VAC at full load		

INPUT

VOLTAGE RANGE	85 ~ 264VAC	120 ~ 370VDC		
FREQUENCY RANGE	47 ~ 63Hz			
EFFICIENCY (Typ.)	74%	81%	82%	83%
AC CURRENT (Typ.)	0.88A / 115VAC	0.48A / 230VAC		
INRUSH CURRENT (Typ.)	COLD START 15A / 115VAC; 30A / 230VAC			

PROTECTION

OVERLOAD	105 ~ 160% rated output power Protection type: Constant current limiting recovers automatically after fault condition is removed			
OVERVOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V

Protection type: Shut down overvoltage, clamping by zener diode

ENVIRONMENT

WORKING TEMP.	-20 ~ +60°C (Refer to output load derating curve)
WORKING HUMIDITY	20 ~ 90% RH non-condensing
STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH
TEMP. COEFFICIENT	±0.03% / °C (0 ~ 50°C)
VIBRATION	Component: 10 ~ 500Hz, 2G 10min. / 1 cycle, 60 min. each long X,Y, Z axes
MOUNTING	Compliance to IEC60068-2-6

SAFETY & EMC

SAFETY STANDARDS	UL60950-1 EN60950-1 compliant Design refer to EN50178
WITHSTAND VOLTAGE	I/P-O/P: 3KVAC
ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC
EMI CONDUCTION & RADIATION	Compliance to EN55011 EN55022 (CISPR22) Class B
HARMONIC CURRENT	Compliance to EN61000-3-2,-3
EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN55024; ENV50204; EN61000-6-2; EN61204-3; heavy industry level; criteria A

The power supply is considered a component which will installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

OTHERS

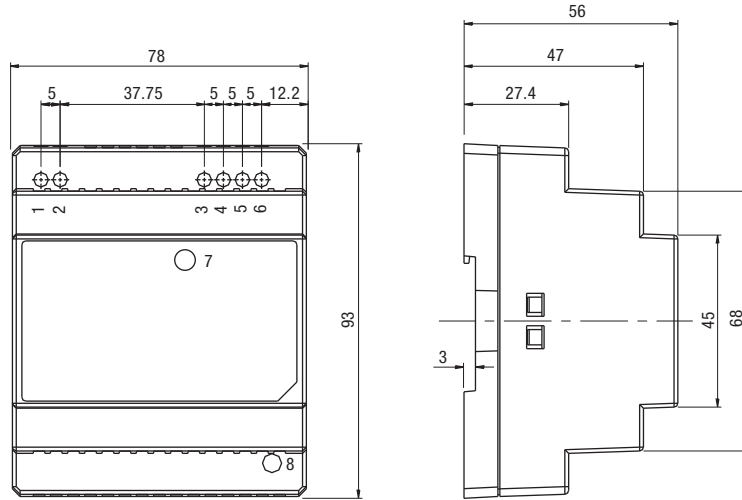
MTBF	441.5K hrs min. MIL-HDBK-217K (25°C)
DIMENSION	78x93x56mm (WxHxD)
PACKING	0.27Kg; 48pcs / 14Kg / 1.02CUFT

All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C of ambient temperature

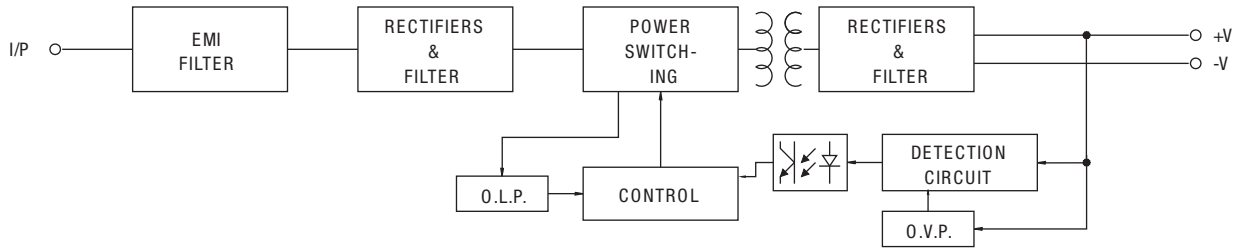
Mechanical Specification

Terminal Pin. No Assignment

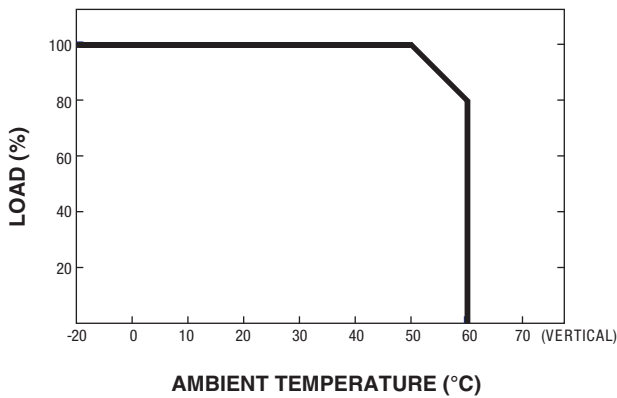
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	5,6	-V
2	AC/N	7	LED
3,4	+V	8	+V ADJ.



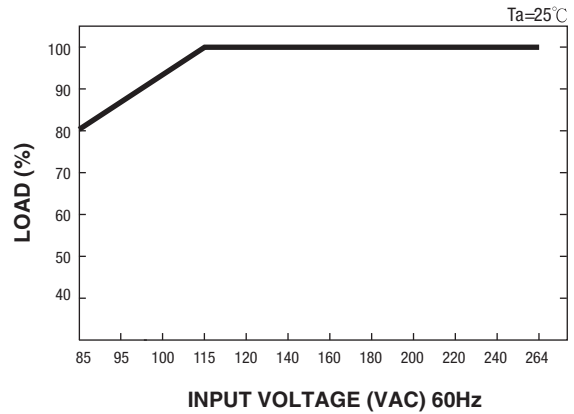
Block Diagram



Derating Curve



Output Derating VS Input Voltage



Note: All dimensions are in millimeters, to convert to inches multiply by 0.03937.



PS-45 Series Specifications



Features:

- Universal AC input / full range
- Protections: Short Circuit / Overload / Over Voltage/ Overtemperature
- Cooling by free air convection
- DIN rail mountable
- UL508 approved
- LED indicator for power on
- Fix switching frequency at 100kHz
- 100% full load burn-in test
- 3 year warranty

OUTPUT

Cat. No.	PS-4505	PS-4512	PS-4515	PS-4524
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DC VOLTAGE	5V	12V	15V	24V
RATED CURRENT	5A	3.5A	2.8A	2A
CURRENT RANGE	0 ~ 5A	0 ~ 3.5A	0 ~ 2.8A	0 ~ 2A
RATED POWER	25W	42W	42W	48W
RIPPLE & NOISE (max)	100mVp-p	200mVp-p	240mVp-p	480mVp-p

Ripple & noise are measured at 20MHz of bandwidth by using a 12 twisted pair-wire terminated with a 0.1µF & 47µF parallel capacitor

VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V
VOLTAGE TOLERANCE	±2.0%	±1.0%	±1.0%	±1.0%

Tolerance: includes set up tolerance, line regulation and load regulation.

LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
SETUP, RISE TIME	800ms, 60ms / 230VAC at full load			
HOLD UP TIME (Typ.)	60ms / 230VAC at full load			

INPUT

VOLTAGE RANGE	85 ~ 264VAC	120 ~ 370VDC		
FREQUENCY RANGE	47 ~ 63Hz			
EFFICIENCY (Typ.)	72%	77%	77%	80%
AC CURRENT (max.)	1.5A / 115VAC	0.75A / 230VAC		
INRUSH CURRENT (Typ.)	COLD START 28A / 115VAC; 56A / 230VAC			
LEAKAGE CURRENT	≤1mA / 240VAC			

PROTECTION

OVERLOAD	105 ~ 160% rated output power Protection type: Constant current limiting recovers automatically after fault condition is removed			
OVERVOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V
OVERTEMPERATURE	Tj 135°C typically (U1) detect on heat sink of power transistor Protection type: Shut down overvoltage, re-power on to recover			

ENVIRONMENT

WORKING TEMPERATURE	-10 ~ +50°C (Refer to output load derating curve)
WORKING HUMIDITY	20 ~ 90% RH non-condensing
STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH
TEMP. COEFFICIENT	±0.03% / °C (0 ~ 50°C)
VIBRATION	Component: 10 ~ 500Hz, 2G 10min. / 1cycle, 60 min. each long X,Y, Z axes
MOUNTING	Compliance to IEC60068-2-6

SAFETY & EMC

SAFETY STANDARDS	UL508 EN60950-1 compliant
WITHSTAND VOLTAGE	I/P-O/P: 3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC (25°C; 70% RH)
EMI CONDUCTION & RADIATION	Compliance to EN55011; EN55022 (CISPR22) Class B
HARMONIC CURRENT	Compliance to EN61000-3-2,-3
EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204; EN55024; EN61000-6-2; heavy industry level; criteria A
	The power supply is considered a component which will installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

OTHERS

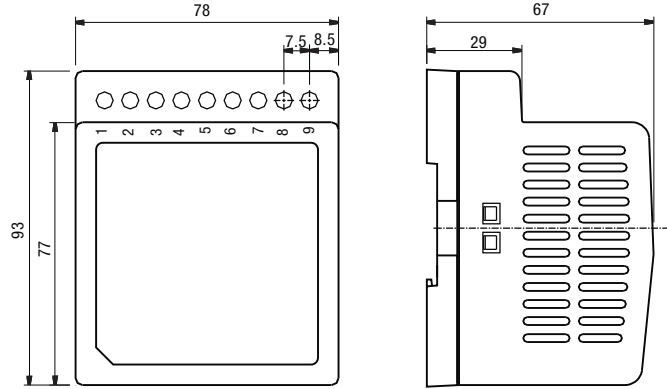
MTBF	364.6K hrs min. MIL-HDBK-217K (25°C)
DIMENSION	93x78x67mm (LxWxH)
PACKING	0.31Kg; 48pcs / 16.1Kg / 1.3CUFT

All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C of ambient temperature

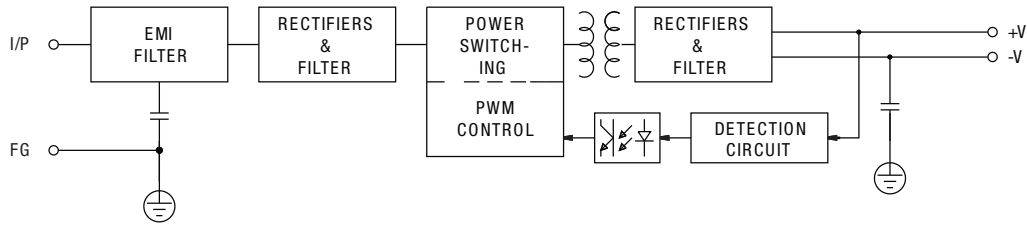
Mechanical Specification

Terminal Pin. No Assignment

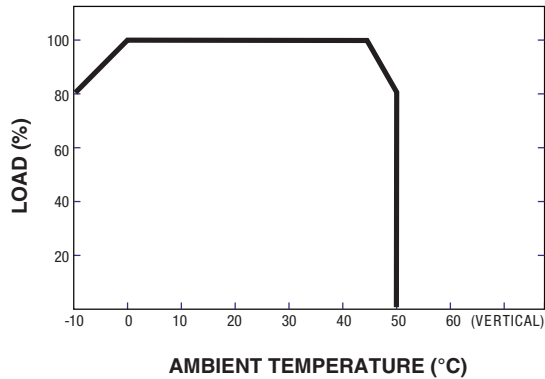
Pin	Assignment	Pin	Assignment
1	AC/L	6,7	DC OUTPUT+V
2	AC/N	8	LED
3	FG ⊕	9	+V ADJ.
4,5	DC OUTPUT-V		



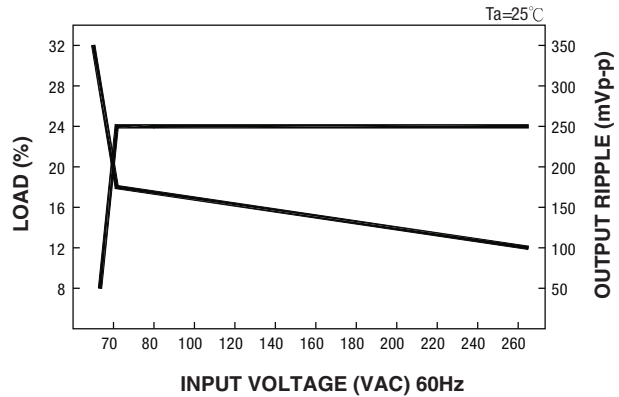
Block Diagram



Derating Curve



Static Characteristic (24V)



Note: All dimensions are in millimeters, to convert to inches multiply by 0.03937.



PS-60 Series Specifications



Features:

- Universal AC input / full range
- Protections: Short Circuit / Overload / Over Voltage
- Cooling by free air convection
- DIN rail mountable
- Isolation class II
- LED indicator for power on
- 100% full load burn-in test
- 3 year warranty

OUTPUT

Cat. No.	PS-6005	PS-6012	PS-6015	PS-6024
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DC VOLTAGE	5V	12V	15V	24V
RATED CURRENT	6.5A	4.5A	4A	2.5A
CURRENT RANGE	0 ~ 6.5A	0 ~ 4.5A	0 ~ 4A	0 ~ 2.5A
RATED POWER	32.5W	54W	60W	60W
RIPPLE & NOISE (max)	80mVp-p	120mVp-p	120mVp-p	150mVp-p
<small>Ripple & noise are measured at 20MHz of bandwidth by using a 12 twisted pair-wire terminated with a 0.1µF & 47µF parallel capacitor</small>				
VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	11.1 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V
VOLTAGE TOLERANCE	±2.0%	±1.0%	±1.0%	±1.0%
<small>Tolerance: includes set up tolerance, line regulation and load regulation.</small>				
LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
SETUP, RISE TIME	100ms, 30ms / 230VAC	200ms, 30ms / 115VAC at full load		
HOLD UP TIME (Typ.)	100ms / 230VAC	23ms / 115VAC at full load		

INPUT

VOLTAGE RANGE	85 ~ 264VAC	124 ~ 370VDC		
FREQUENCY RANGE	47 ~ 63Hz			
EFFICIENCY (Typ.)	76%	82%	83%	84%
AC CURRENT (max.)	1.2A / 115VAC	0.8A / 230VAC		
INRUSH CURRENT (Typ.)	COLD START 18A / 115VAC; 36A / 230VAC			

PROTECTION

OVERLOAD	105 ~ 160% rated output power <small>Protection type: Constant current limiting recovers automatically after fault condition is removed</small>			
OVERVOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V
<small>Protection type: Shut down overvoltage, re-power on to recover</small>				

ENVIRONMENT

WORKING TEMP.	-20 ~ +60°C (Refer to output load derating curve)			
WORKING HUMIDITY	20 ~ 90% RH non-condensing			
STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH			
TEMP. COEFFICIENT	±0.03% / °C (0 ~ 50°C)			
VIBRATION	10 ~ 500Hz, 2G 10min. / 1cycle, 60 min. each long X,Y, Z axes			
MOUNTING	Compliance to IEC60068-2-6			

SAFETY & EMC

SAFETY STANDARDS	UL60950-1 EN60950-1 compliant Design refer to EN50178			
WITHSTAND VOLTAGE	I/P-O/P: 3KVAC			
ISOLATION RESISTANCE	I/P-O/P: 100M Ohms/500VDC (25°C; 70% RH)			
EMI CONDUCTION & RADIATION	Compliance to EN55011 EN55022 (CISPR22) Class B			
HARMONIC CURRENT	Compliance to EN61000-3-2,-3			
EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204; EN55024; EN61000-6-2; EN61204-3; heavy industry level; criteria A			
<small>The power supply is considered a component which will installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</small>				

OTHERS

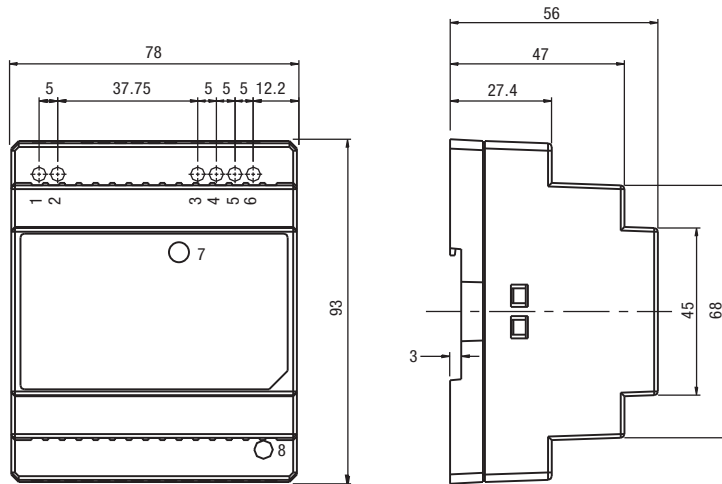
MTBF	216.2K hrs min. MIL-HDBK-217K (25°C)
DIMENSION	78x93x56mm (WxHxD)
PACKING	0.3Kg; 48pcs / 15.4Kg / 1.02CUFT

All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C of ambient temperature

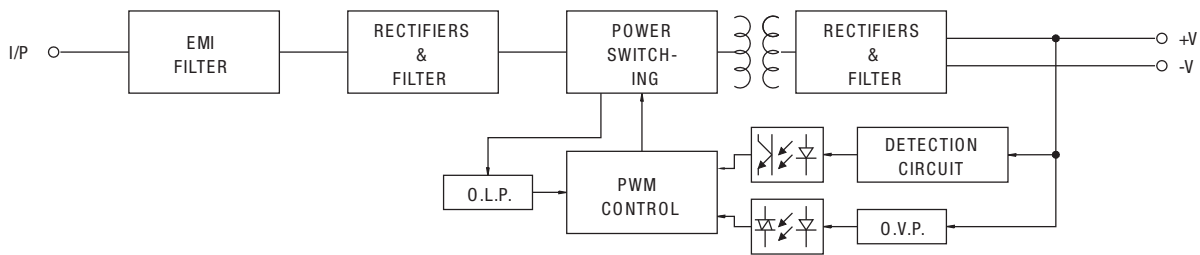
Mechanical Specification

Terminal Pin. No Assignment

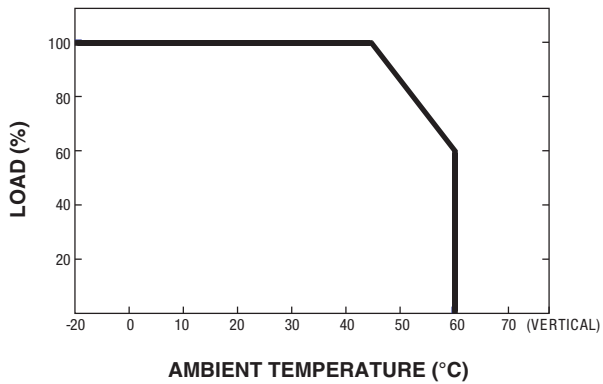
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	5,6	-V
2	AC/N	7	LED
3,4	+V	8	+V ADJ.



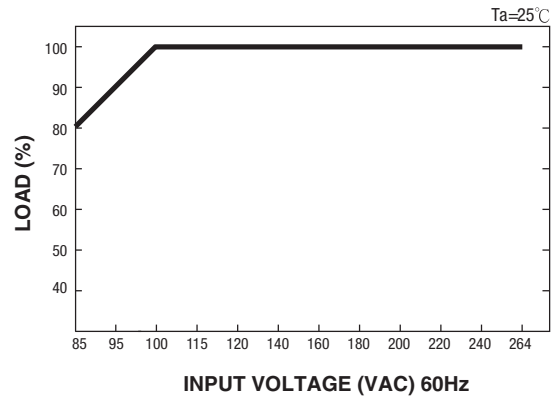
Block Diagram



Derating Curve



Output Derating VS Input Voltage





PS-100 Series Specifications



Features:

- Universal AC input / full range
- Protections: Short Circuit / Overload / Over Voltage / Overtemperature
- Cooling by free air convection
- DIN rail mountable
- Isolation class II
- LED indicator for power on
- No load power consumption <1W
- 100% full load burn-in test
- 3 year warranty

OUTPUT

Cat. No.	PS-10012	PS-10015	PS-10024
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DC VOLTAGE	12V	15V	24V
RATED CURRENT	7.5A	6.5A	4.2A
CURRENT RANGE	0 ~ 7.5A	0 ~ 6.5A	0 ~ 4.2A
RATED POWER	90W	97.5W	100.8W
RIPPLE & NOISE (max)	120mVp-p	120mVp-p	150mVp-p
Ripple & noise are measured at 20MHz of bandwidth by using a 12 twisted pair-wire terminated with a 0.1µF & 47µF parallel capacitor.			
VOLTAGE ADJ. RANGE	12 ~ 15V	15 ~ 18V	24 ~ 29V
VOLTAGE TOLERANCE	±2.0%	±1.0%	±1.0%
Tolerance: includes set up tolerance, line regulation and load regulation.			
LINE REGULATION	±1.0%	±1.0%	±1.0%
LOAD REGULATION	±1.0%	±1.0%	±1.0%
SETUP, RISE TIME	2700ms, 80ms / 230VAC	2700ms, 80ms / 115VAC at full load	
HOLD UP TIME (Typ.)	50ms / 230VAC	18ms / 115VAC at full load	

INPUT

VOLTAGE RANGE	88 ~ 264VAC	124 ~ 370VDC [Connect AC/L(+), AC/N(-)]	
FREQUENCY RANGE	47 ~ 63Hz		
EFFICIENCY (Typ.)	87%	87%	89%
AC CURRENT (max.)	3A / 115VAC	1.6A / 230VAC	
INRUSH CURRENT (Typ.)	COLD START 30A / 115VAC;	45A / 230VAC	

PROTECTION

OVERLOAD	105 ~ 135% rated output power Protection type: Constant current limiting recovers automatically after fault condition is removed Under short circuit or overload ≥ 150% conditions, output voltage may shut down for 5 sec. and then go into constant current protection mode		
OVERVOLTAGE	16 ~ 20V	19 ~ 23V	30 ~ 35V
OVERTEMPERATURE	90°C ± 15°C (RTH2) detect on heat sink of power transistor Protection type: Shut down overvoltage, re-power on to recover		

ENVIRONMENT

WORKING TEMP.	-20 ~ +60°C (Refer to output load derating curve)
WORKING HUMIDITY	20 ~ 90% RH non-condensing
STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH
TEMP. COEFFICIENT	±0.03% / °C (0 ~ 50°C)
VIBRATION	10 ~ 500Hz, 2G 10min. / 1cycle, 60 min. each long X,Y, Z axes
MOUNTING	Compliance to IEC60068-2-6

SAFETY & EMC

SAFETY STANDARDS	UL60950-1 EN60950-1 compliant Design refer to EN50178
WITHSTAND VOLTAGE	I/P-O/P: 3KVAC
ISOLATION RESISTANCE	I/P-O/P: 100M Ohms/500VDC (25°C; 70% RH)
EMI CONDUCTION & RADIATION	Compliance to EN61204-3; EN55022 (CISPR22) Class B
HARMONIC CURRENT	Compliance to EN61000-3-2,-3 Harmonic current test @ 90% load
EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204; EN55024; EN61000-6-2; EN61204-3; heavy industry level; criteria A The power supply is considered a component which will installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

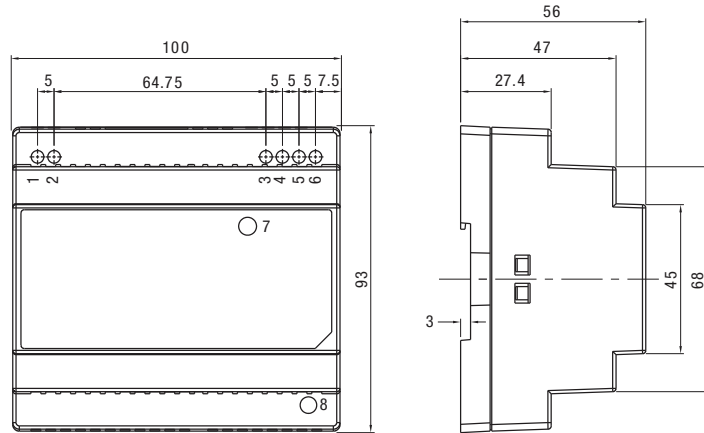
OTHERS

MTBF	486K hrs min. MIL-HDBK-217K (25°C)
DIMENSION	100x93x56mm (WxHxD)
PACKING	0.35Kg; 36pcs / 13.6Kg / 0.89CUFT
NOTE	All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C of ambient temperature.

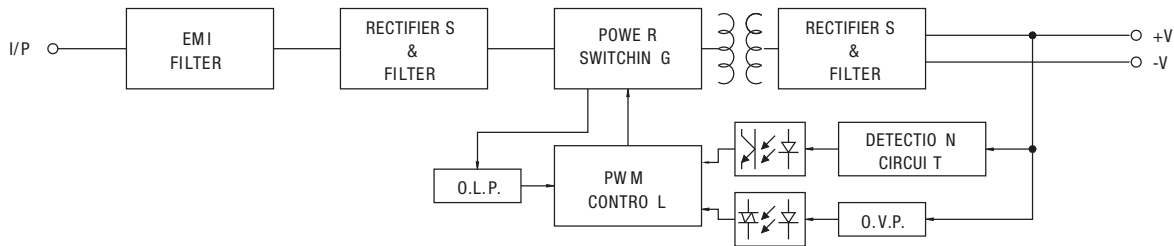
Mechanical Specification

Terminal Pin. No Assignment

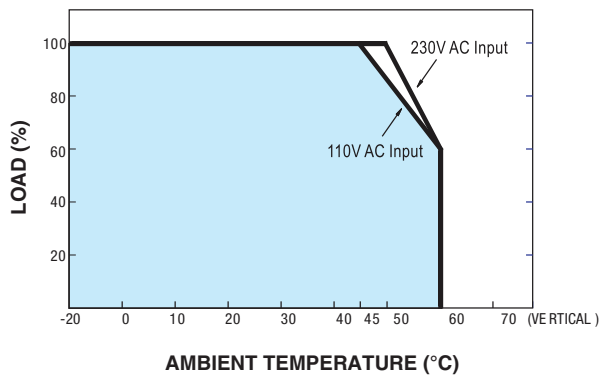
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	5,6	-V
2	AC/N	7	LED
3,4	+V	8	+V ADJ.



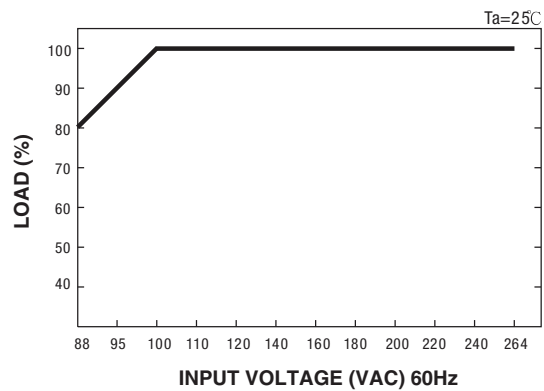
Block Diagram



Derating Curve



Output Derating VS Input Voltage



Note: All dimensions are in millimeters, to convert to inches multiply by 0.03937.