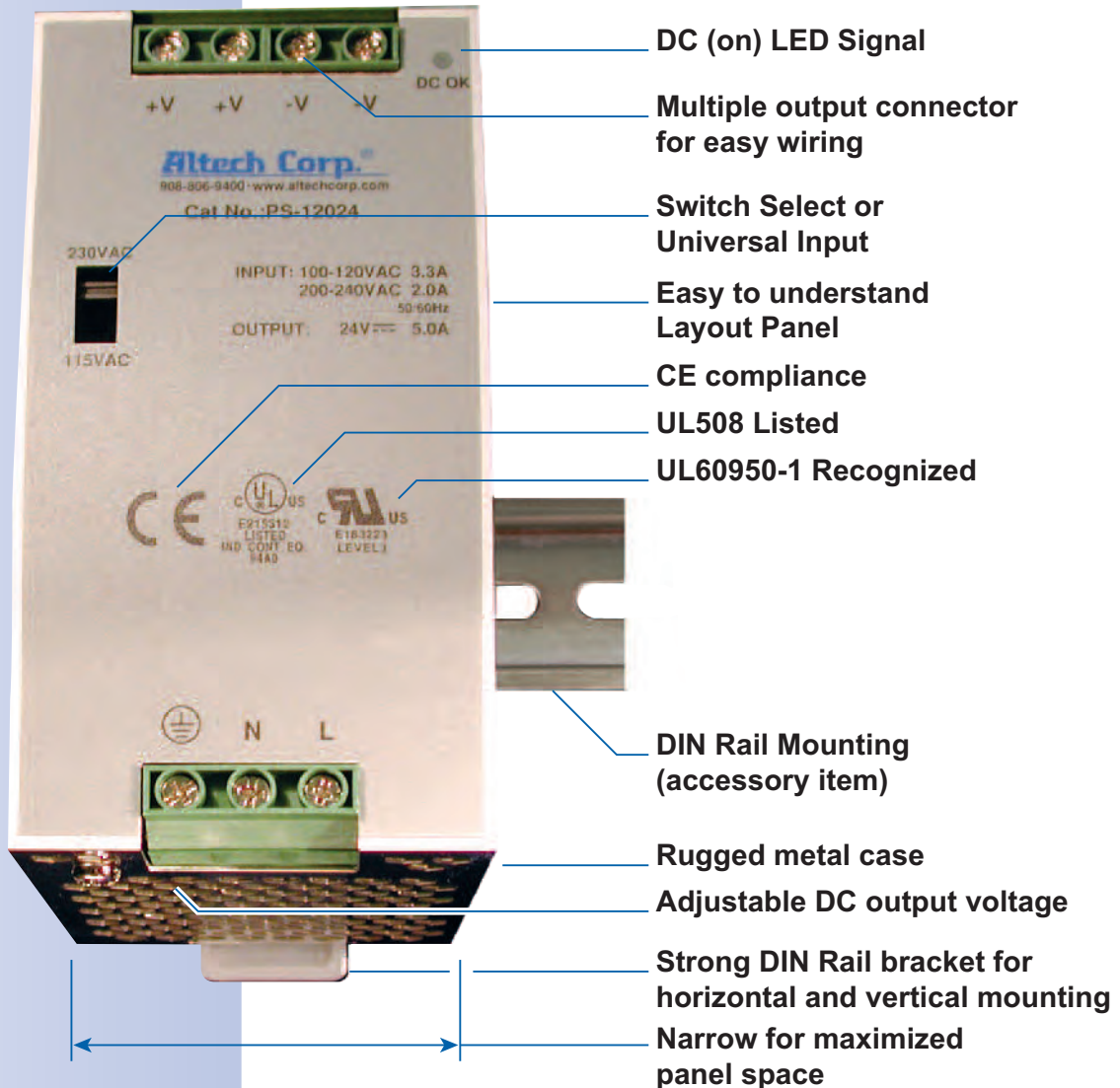


DIN RAIL POWER SUPPLIES

(30-960 WATTS)



- DIN Rail Mount, 35 x 7.5 mm or 35 x 15 mm
- Wide Power Range (30W-960W)
- Wide Adjustment Range
- Rugged for Industrial Use
- High Efficiency
- Lightweight and Compact Design
- 3 year warranty
- Short Circuit Protection
- Overvoltage Protection
- Overload Protection
- Overtemperature Protection
- Cooling by free air convection
- Worldwide Approvals
- UL508 Listed and/or UL60950-1 Recognized



Altech Power SuppliesEasy to Use & Reliable!

Specifications

Input

- Input Voltage
 - 90-264V AC for the single phase
 - 340-550V AC for the three phase
- Input Frequency: 47-63 Hz
- Input Current: 0.6 A to 8A
- Inrush Current: cold start 60 A max
- Power Factor: All units are EN61000-3-2 compliant

General

- Efficiency: 72-92% (see data sheets)
- Isolation: 3000V AC Input to Output
1500V AC Input to Ground
500V AC Output to Ground

Environmental

Power supplies can run at 100% capacity inside the panel, there is no need for oversizing. See derating curves for more information.

- Operating Temperature:
-20 to +60°C (-4° to +140°F)
- Operating Humidity:
90% RH, non-condensing
- Storage Temperature:
-20 °C to +85 °C (-4° to +185°F)
- Vibration: 2 G, 10 Hz to 500 kHz,
10 min/cycle for 60 minutes each axis



Output

- Output Voltage: 5V; 12V; 15V; 24V; 48V
- Output Voltage Adjustment Range: $\pm 10\%$
- Initial Set Accuracy: $\pm 2\%$ max
- Ripple & Noise: See data sheet
- Over-voltage Protection: 115-135%
- Overload Protection: 105-150%,
constant current with auto recovery

EMC & Safety

- Emissions: EN55022/55011, Class B
- EN61000-3-2, -3
- Voltage Flicker: EN61000-3-3
- ESD Immunity: EN61000-4-2, level 3
- Radiated Immunity: EN61000-4-3, 10 V/m
- EFT/Burst: EN61000-4-4, level 3
- Surge: EN61000-4-5, level 3
- Conducted Immunity:
EN61000-4-6, 10 V rms,
- Safety Approvals:
EN60950
UL508
UL60950
CE marked
- Military Standard
MIL-HDBK-217F

75-240W Single Phase Power Supplies



Key Features

- Universal AC Input / Full Range or switch select
- LED indicator for power on
- 100% full load burn-in test
- 3 year warranty
- Input voltage range:
 - 85-264V AC
 - 120-370V DC
- AC inrush current:
 - Cold start: 20A at 115V AC
 - 40A at 230V AC
- DC adjustment range:
 - $\pm 10\%$ rated output voltage
- Overload voltage protection:
 - 105%-160% constant current limiting, auto-recovery
- Over-voltage protection:
 - 115%-135% rated output voltage
- Setup, rise, hold up time:
 - 500ms; 70ms; 30ms at full load and 230V AC
- Withstand voltage:
 - I/P-O/P: 3KV AC, I/P-FG: 1.5KV AC, O/P-PG: 0.5KV 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-217F



75W Single Output DIN Rail Power Supply

Cat. No.	Output		Tol. %	Ripple & Noise	Efficiency
	V DC	A			
PS-7512	12V DC	6.3A	$\pm 2\%$	100 mVp-p	76%
PS-7524	24V DC	3.2A	$\pm 1\%$	150 mVp-p	80%
PS-7548	48V DC	1.6A	$\pm 1\%$	240 mVp-p	81%

Universal Input: 85-264V AC, 120-370V DC full range, 1.6A @ 115V AC, 0.96A @ 230V AC
 Connection: Input - 3 poles, Output - 4 poles screw terminal
 Size (WxHxD): 55.5x125x100mm (2.20x4.95x3.95 inches)
 Packaging: 1/box; 1.35lbs / 0.60Kg



120W Single Output DIN Rail Power Supply

Cat. No.	Output		Tol. %	Ripple & Noise	Efficiency
	V DC	A			
PS-12012	12V DC	10A	$\pm 2\%$	80 mVp-p	80%
PS-12024	24V DC	5A	$\pm 1\%$	80 mVp-p	84%
PS-12048	48V DC	2.5A	$\pm 1\%$	100 mVp-p	85%

Switch select Input: 88-132V AC / 176-264 V AC, 248-370V DC range, 2.6A @ 115V AC, 1.6A @ 230V AC
 Connection: Input - 3 poles, Output - 4 poles screw terminal
 Size (WxHxD): 65.5x125x100mm (2.56x4.95x3.95 inches)
 Packaging: 1/box; 1.75lbs / 0.79Kg



120W High Input Single Output DIN Rail Power Supply

Cat. No.	Output		Tol. %	Ripple & Noise	Efficiency
	V DC	A			
PSH-12024	24V DC	5A	$\pm 1\%$	80 mVp-p	85%
PSH-12048	48V DC	2.5A	$\pm 1\%$	80 mVp-p	86%

Switch select Input: 340-550V AC, 480-780V DC range, 0.65A @ 400V AC, 0.6A @ 500V AC
 Connection: Input - 3 poles, Output - 4 poles screw terminal
 Size (WxHxD): 65.5x125x100mm (2.56x4.95x3.95 inches)
 Packaging: 1/box; 1.65lbs / 0.75Kg

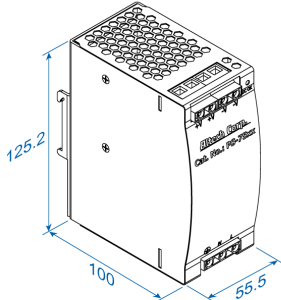


240W Single Output DIN Rail Power Supply with PFC Function

Cat. No.	Output		Tol. %	Ripple & Noise	Efficiency
	V DC	A			
PSP-24024	24V DC	10A	$\pm 1\%$	80 mVp-p	84%
PSP-24048	48V DC	5A	$\pm 1\%$	150 mVp-p	85%

Universal Input: 85-264V AC, 120-370V DC full range, 2.8A @ 115V AC, 1.4A @ 230V AC
 Built in active Power Factor Correction function. PF>0.95
 Connection: Input - 3 poles, Output - 4 poles screw terminal
 Size (WxHxD): 125x125x100mm (4.95x4.95x3.95 inches)
 Packaging: 1/box; 2.7lbs / 1.2Kg

PS-75 Series



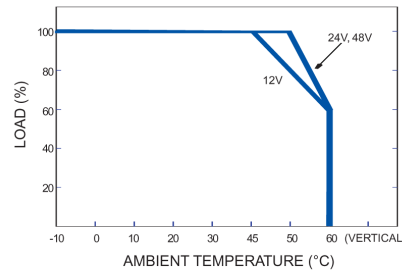
Terminal Pin. No Assign. (TB1)

Pin No.	Assignment
1	FG ⊕
2	AC/N
3	AC/L

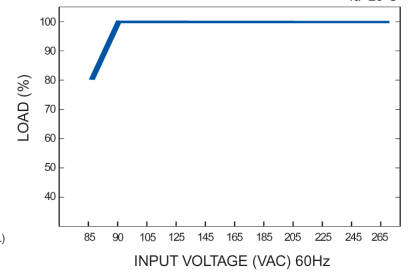
Terminal Pin. No Assign. (TB2)

Pin No.	Assignment
1,2	DC OUTPUT +V
3,4	DC OUTPUT -V

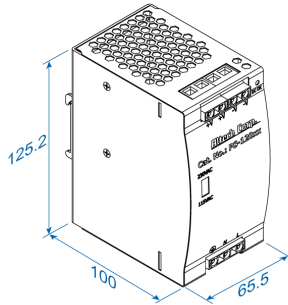
Output Derating



Output Derating VS Input Voltage



PS-120 Series



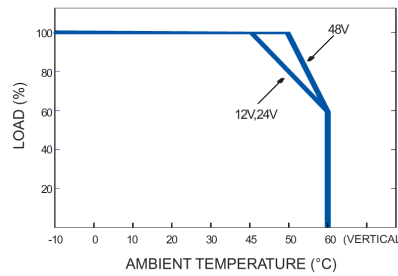
Terminal Pin. No Assign. (TB1)

Pin No.	Assignment
1	FG ⊕
2	AC/N
3	AC/L

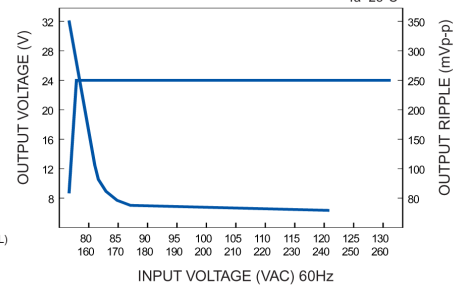
Terminal Pin. No Assign. (TB2)

Pin No.	Assignment
1,2	DC OUTPUT +V
3,4	DC OUTPUT -V

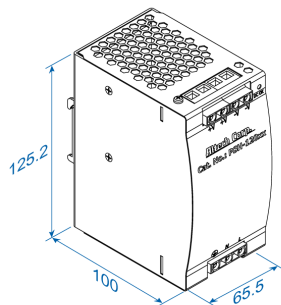
Output Derating



Static Characteristics (24V)



PSH-120 Series



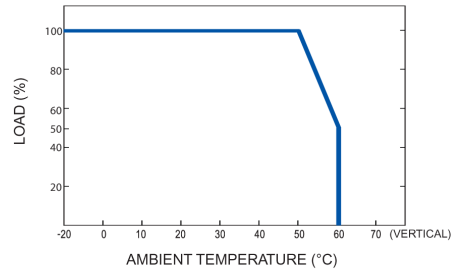
Terminal Pin. No Assign. (TB1)

Pin No.	Assignment
1	FG ⊕
2	AC/N(L2)
3	AC/L(L1)

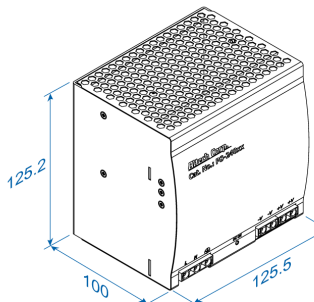
Terminal Pin. No Assign. (TB2)

Pin No.	Assignment
1,2	DC OUTPUT +V
3,4	DC OUTPUT -V

Derating Curve



PSP-240 Series



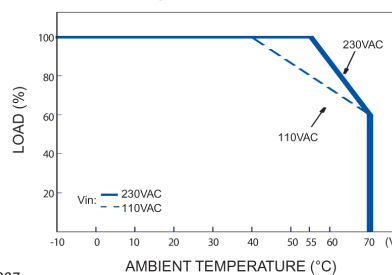
Terminal Pin. No Assign. (TB1)

Pin No.	Assignment
1	FG ⊕
2	AC/N
3	AC/L

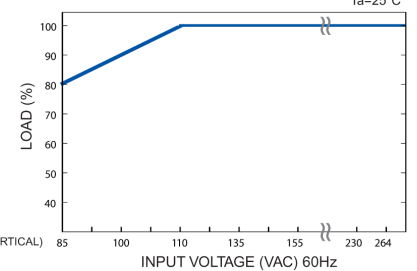
Terminal Pin. No Assign. (TB2)

Pin No.	Assignment
1,2	DC OUTPUT +V
3,4	DC OUTPUT -V

Output Derating



Output Derating VS Input Voltage



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