

24V Industrial Power Supplies

ATCPWR Series



QUESTIONS

- Are you looking for a cost-effective way to control components in your panel with a high-quality DC power supply?

Elevate your industrial power setup with the **ATCPWR 24V Industrial Power Supplies**, a game-changer in the realm of factory automation power solutions. These compact, DIN rail-mount units are designed to fit perfectly into your existing setup, saving precious space while providing a robust power source with active power factor correction. With models ranging from 60W to 480W, each offering wide AC input voltage range and exceptional efficiencies up to 93.5%, these power supplies ensure your operations run seamlessly with protection against short-circuits, overloads, overvoltage, and over-temperature. Certified with cULus listing and UL 508 approval, the ATCPWR Series stands as a testament to reliability and quality, backed by ATC's standard 1-year warranty. Choose ATCPWR for a dependable, efficient, and space-saving power solution that keeps your production moving and your costs down.

FEATURES

- Supports 90-264 VAC / 127-370 VDC
- Protection against short circuit, overload, overvoltage, and over temperature
- Built-in active power factor correction
- Cooling by free air convection
- Compact, space-saving design
- UL 508 approved (E206430)

FOCUS MARKETS/APPLICATIONS

- OEM
- Panel Builders

CURRENT COMPETITION

- Mean Well DRA, MDR, and NDR Series
- Sola SDN-P and SDN-C Series
- Practically any 24V Power Supply

COMPETITIVE ADVANTAGES

- Value power supply
- High-quality product, offered at a low price



ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
ATC60W24V	60W, 24V / 2.5A DIN rail mounted Power Supply in Plastic Housing
ATC120W24V	120W, 24V / 5A DIN rail mounted Power Supply in Plastic Housing
ATC240W24V	240W, 24V / 10A DIN rail mounted Power Supply in Plastic Housing
ATC480W24V	480W, 24V / 20A DIN rail mounted Power Supply in Plastic Housing

* Our standard 1 year warranty applies to all Automatic Timing & Controls Products

Visit our website to discover other solutions from Automatic Timing Controls and Diversified Electronics!

atcdiversified.com

ATC & Diversified Electronics, divisions of the Marsh Bellofram Group of Companies

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Interested in learning more? Scan the QR code or visit the link below for more information.

<https://rebrand.ly/ATCPWR>

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TECHNICAL DATA

Specifications		ATC60W24V	ATC120W24V	ATC240W24V	ATC480W24V	
OUTPUT	Rated Current	2.5A	5A	10A	20A	
	Current Range	0-2.5A	0-5A	0-10A	0-20A	
	Ripple & Noise (Max.)	< 1% of Vout				
	Voltage Adj. Range	24V to 28V				
	Voltage Tolerance	± 1%				
	Line Regulation	± 0.5%	± 1%			
	Load Regulation	± 1%				
	Turn On Time	< 1 sec. @ 230VAC and < 3 sec. @ 115VAC, Full Load		< 2 sec, Full Load		
	Hold Up Time	≥ 60 ms @ 230VAC and ≥ 15 ms @ 115VAC, Full Load		> 25 ms @ 24V and > 16 ms @ 28V at 115/230VAC, Full Load	> 20 ms @ 24V and > 12 ms @ 28V at 115/230VAC, Full Load	
Rise Time	< 100 ms					
INPUT	Voltage Range*	90-264VAC (127-370VDC)		90-264VAC (127-370VDC); De-rate output power linearly below 100VAC from 100% at 100VAC to 90% at 90VAC		
	Frequency Range	50-60Hz				
	Efficiency @ 230VAC	Up to 87%	Up to 89%	> 93%	> 93.5%	
	AC Current	1.2A @ 115VAC; 0.8A @ 230VAC	2.2A @ 115VAC; 1.5A @ 230VAC	2.4A @ 115VAC; 1.2A @ 230VAC	4.8A @ 115VAC; 2.4A @ 230VAC	
	Power Factor	> 0.95 at Full Load over entire input range				
	Inrush Current	< 48A; Measured at 264VAC, 25°C Ambient, Cold Start		< 60A; Measured at 264VAC, 25°C Ambient, Cold Start		
Leakage Current	< 1mA; 264VAC input					
PROTECTION	Overload	> 110% of rated output current; Hiccup Mode; Auto-Recovery Type		110% to 140% of rated output current; Hiccup Mode; Auto-Recovery Type		
	Overvoltage	31.5VDC ± 1VDC		31VDC ± 0.5VDC		
	Output Short Circuit	Latched Type; Input AC power to be recycled to recover power supply Hiccup Mode when output is shorted; Auto-Recovery Type				
	Over Temperature	Power supply shuts down when the temperature of PCB below main transformer reaches typically 120°C; Turns on only after the temperature falls below 90°C typically and AC power is recycled thereafter.		Power supply shuts down when the temperature of PCB below PFC choke reaches typically 120°C; It recovers automatically when temperature falls to typically 90°C	Power supply shuts down when the temperature of PCB below main transformer reaches typically 120°C; Turns on only after the temperature falls below 90°C typically and AC power is recycled thereafter.	
FUNCTION	DC OK Signal	Contact closes at 23.0V (typ.) Contact opens at 22.5V (typ.)			Contact Rating: 30 VDC 1 A; 60 VDC 0.5 A; 125 VAC 0.5 A; resistive load, min. current 1mA	
ENVIRONMENT	Operating Temperature	-25°C to 70°C; De-rate linearly above 50°C from 100% load at 50°C to 50% load at 70°C. - 25°C to 0°C startup is guaranteed with specification deviation (Output ripple can be more than 10% of the output voltage)				
	Storage Temperature	-40°C to 85°C				
	Cooling	Natural convection cooled				
	Humidity	5 to 95% RH. Non-Condensing				
	Altitude	2000m				
Vibration	Component: 10-500Hz, 2G 10 min./1 cycle, Period for 60 min. each along X, Y, Z axes					
SAFETY & EMC		I/P to Earth: 2500 VAC I/P to O/P: 4000 VAC O/P to Earth: 1500 VAC		I/P to Earth: 2500 VAC I/P to O/P: 4000 VAC	O/P to Earth: 1500 VAC O/P to DC-OK: 500 VAC	
OTHERS	Dimensions	43 x 109.8 x 102.7 mm (W x H x D)	43 x 109.8 x 102.7mm (W x H x D)	50 x 136 x 135 mm (W x H x D)	60 x 154 x 158.55 mm (W x H x D)	
	Weight	285 gms	350 gms	645 gms	1050 gms	
	Mounting	35 mm DIN rail				

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