

ABC401 Series

400 W AC-DC Power Supplies

The ABC401 Series of AC-DC power supplies provides up to 400 W of regulated output power through wide input voltage range 90 – 264 VAC in single outputs of 12, 24, 28, 36 or 48 VDC.

The ABC401 Series comes in five different low-profile packages, offering 12 and 5 VSB standby outputs and a full set of protection features. Available control signals include Power Good (P_OK), Remote On/Off (PS_ON) and remote sense compensation on the (+) load line.

The ABC401 Series complies with the latest international safety standards for IT equipment and displays the CE-Mark for the European Low Voltage Directive (LVD).

Key Features & Benefits

- Universal input voltage range (90 – 264 VAC)
- Active PFC, EN 61000-3-2 Class C, D compliant
- Steady 400 W output power (440 W peak)
- High efficiency (94% typical)
- Low stand by power consumption (<0.5 W)
- 12, 24, 28, 36, 48 VDC standard output voltages
- +5V stand by, 2 A and 12 V auxiliary, 1 A outputs
- Low earth/touch leakage currents (<300/100 μ A)
- Fan speed control function (Off at <50 W)
- Over temperature protection
- Input under voltage, output over voltage protections
- Over current and short circuit protection
- Remote On/Off and power good signal
- 5 available packages all fit 1U installation
- IEC/EN/UL 60950-1 compliance
- EN55032, FCC Class B, conducted radiated emissions.
- EN55024 immunity
- 4000 m operation without de-rating

Applications

- Video Wall Display & Entertainment
- Industrial Process Control
- Telecommunications
- Test & Measurement Equipment
- Industrial Laser applications
- 3D Printing and ATM



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1. MODEL SELECTION

| MODEL NUMBER | PACKAGE & COOLING | INPUT VOLTAGE RANGE [VAC] | NOM. OUTPUT VOLTAGE [VDC] | MAX. OUTPUT POWER [W] | MAX. OUTPUT CURRENT [A] | DIMENSIONS |
|----------------|---|---------------------------|---------------------------|-----------------------|-------------------------|---|
| ABC401-1012 | Open Frame Convection / Forced Air | 90 - 264 | 12 | 400 | 33.3 | 76.0 x 164.2 x 37.7 mm (2.99 x 6.46 x 1.48 in) |
| ABC401-1012-UC | U-Chassis Convection / Forced Air | 90 - 264 | 12 | 400 | 33.3 | 84.4 x 166.5 x 40.0 mm (3.32 x 6.55 x 1.57 in) |
| ABC401-1012-PC | Perforated Cover Convection / Forced Air | 90 - 264 | 12 | 400 | 33.3 | 84.4 x 166.5 x 41.0 mm (3.32 x 6.55 x 1.61 in) |
| ABC401-1012-T | Vented Cover Top Fan | 90 - 264 | 12 | 400 | 33.3 | 84.4 x 183.0 x 41.0 mm (3.32 x 7.20 x 1.61 in) |
| ABC401-1012-S | Enclosed Front Mounted Fan | 90 - 264 | 12 | 400 | 33.3 | 84.4 x 183.0 x 41.0 mm (3.32 x 7.20 x 1.61 in) |
| ABC401-1024 | Open Frame Convection / Forced Air | 90 - 264 | 24 | 400 | 16.7 | 76.0 x 164.2 x 37.7 mm (2.99 x 6.46 x 1.48 in) |
| ABC401-1024-UC | U-Chassis Convection / Forced Air | 90 - 264 | 24 | 400 | 16.7 | 84.4 x 166.5 x 40.0 mm (3.32 x 6.55 x 1.57 in) |
| ABC401-1024-PC | Perforated Cover Convection / Forced Air | 90 - 264 | 24 | 400 | 16.7 | 84.4 x 166.5 x 41.0 mm (3.32 x 6.55 x 1.61 in) |
| ABC401-1024-T | Vented Cover Top Fan | 90 - 264 | 24 | 400 | 16.7 | 84.4 x 183.0 x 41.0 mm (3.32 x 7.20 x 1.61 in) |
| ABC401-1024-S | Enclosed Front Mounted Fan | 90 - 264 | 24 | 400 | 16.7 | 84.4 x 183.0 x 41.0 mm (3.32 x 7.20 x 1.61 in) |
| ABC401-1028-UC | U-Chassis Convection / Forced Air | 90 - 264 | 28 | 400 | 14.3 | 84.4 x 166.5 x 40.0 mm (3.32 x 6.55 x 1.57 in) |
| ABC401-1036 | Open Frame Convection / Forced Air | 90 - 264 | 36 | 400 | 11.1 | 76.0 x 164.2 x 37.7 mm (2.99 x 6.46 x 1.48 in) |
| ABC401-1036-UC | U-Chassis Convection / Forced Air | 90 - 264 | 36 | 400 | 11.1 | 84.4 x 166.5 x 40.0 mm (3.32 x 6.55 x 1.57 in) |
| ABC401-1036-PC | Perforated Cover Convection / Forced Air | 90 - 264 | 36 | 400 | 11.1 | 84.4 x 166.5 x 41.0 mm (3.32 x 6.55 x 1.61 in) |
| ABC401-1036-T | Vented Cover Top Fan | 90 - 264 | 36 | 400 | 11.1 | 84.4 x 183.0 x 41.0 mm (3.32 x 7.20 x 1.61 in) |
| ABC401-1036-S | Enclosed Front Mounted Fan | 90 - 264 | 36 | 400 | 11.1 | 84.4 x 183.0 x 41.0 mm (3.32 x 7.20 x 1.61 in) |
| ABC401-1048 | Open Frame Convection / Forced Air | 90 - 264 | 48 | 400 | 8.3 | 76.0 x 164.2 x 37.7 mm (2.99 x 6.46 x 1.48 in) |
| ABC401-1048-UC | U-Chassis Convection / Forced Air | 90 - 264 | 48 | 400 | 8.3 | 84.4 x 166.5 x 40.0 mm (3.32 x 6.55 x 1.57 in) |
| ABC401-1048-PC | Perforated Cover Convection / Forced Air | 90 - 264 | 48 | 400 | 8.3 | 84.4 x 166.5 x 41.0 mm (3.32 x 6.55 x 1.61 in) |
| ABC401-1048-T | Vented Cover Top Fan | 90 - 264 | 48 | 400 | 8.3 | 84.4 x 183.0 x 41.0 mm (3.32 x 7.20 x 1.61 in) |
| ABC401-1048-S | Enclosed Front Mounted Fan | 90 - 264 | 48 | 400 | 8.3 | 84.4 x 183.0 x 41.0 mm (3.32 x 7.20 x 1.61 in) |