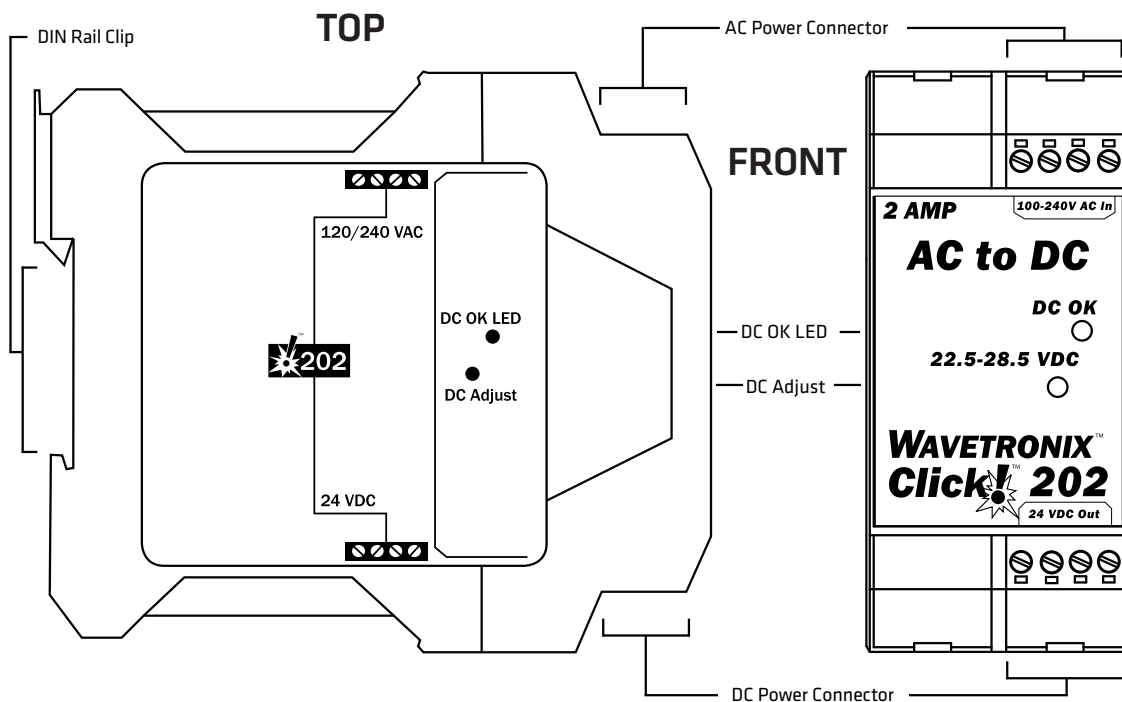


## AC to DC power converter

The Click 201, 202, and 204 are 100 to 240 VAC to 24 VDC power converters, bringing reliable DC power to your traffic cabinet. With a 100% power reserve, the Click 201, 202, and 204 are the most effective remedy for static voltage dips, transient failures of supply voltage or continuous phase failures.



- Converts 100–240 VAC power to 24 VDC power
- Provides 1, 2, or 4 A of current, depending on model
- Mounts easily onto a DIN rail
- Meets NEMA TS2-1998 environmental specification
- UL listed
- Pluggable screw terminals allow for easier wiring and are red-keyed, allowing connectors to plug into only one specific jack
- Guaranteed mains buffering of more than 20 ms under full load
- DC OK LED indicates when device is working properly
- Features internal surge protection
- Potentiometer allows for adjustable DC voltage output
- Comes in three models:
  - Click 201: 1 A @ 24 VDC
  - Click 202: 2 A @ 24 VDC
  - Click 204: 4 A @ 24 VDC



## Technical specifications

### Physical

- Weight: 0.46 lbs. (0.21 kg) / 0.55 lbs. (0.25 kg) / 1.1 lbs. (0.48 kg)
- Physical dimensions: 4.5 in. × 3.9 in. × 0.9 in. (11.4 cm x 9.9 cm x 2.3 cm) / 4.5 in. × 3.9 in. × 1.7 in. (11.4 cm x 9.9 cm x 4.3 cm) / 4.2 in. x 3.9 in. x 2.7 in. (10.7 cm x 9.9 cm x 6.8 cm)
- Ambient operating temperature: -29°F to 140°F (-34°C to 60°C) with between 140°F and 165°F (60°C and 74°C) derating
- Humidity: up to 95% RH

### Mounting

- DIN rail-mountable

### Connections

- Pluggable screw terminals for easy pre-wiring

### Power

- Click 201 power output at -29°F to 140°F (-34°C to 60°C): 1 A
- Click 202 power output at -29°F to 140°F (-34°C to 60°C): 2 A
- Click 204 power output at -29°F to 140°F (-34°C to 60°C): 4 A
- At temperatures between 140°F to 165°F (60°C and 74°C), output will decrease at a rate of 2.5% per degree Celsius temperature increase
- Click 201/202/204 power input: 100–240 VAC at 45–65 Hz

### Surge protection

- Complies with the applicable standards stated in the IEC 61000-4-5 Standard for AC input power lines

### Efficiency

- Efficiency in converting AC input to DC: 80% or greater

### UL listed

- Listed with UL under UL 508; complies with all applicable UL 508 standards.

### NEMA TS2-1998 testing

- Click 201/202 comply with the applicable standards stated in the NEMA TS2-1998 Standard
- Test results available for each of the following tests for the Click 201/202:
  - Shock pulses of 10g, 11 ms half sine wave
  - Vibration of .5 Grms up to 30 Hz
  - 300 V positive/negative pulses applied at one pulse per second at minimum and maximum DC supply voltage
  - Stored at -49°F (-45°C) for 24 hours
  - Stored at 185°F (85°C) for 24 hours
  - Operation at -29.2°F (-34°C) and 10.8 VDC
  - Operation at -29.2°F (-34°C) and 26.5 VDC
  - Operation at 165.2°F (74°C) and 26.5 VDC
  - Operation at 165.2°F (74°C) and 10.8 VDC

## Ordering information

Click 201  
**CLK-201**

Click 202  
**CLK-202**

Click 204  
**CLK-204**

### Accessories

**WX-CLK-210** – Click 210 circuit breaker

**WX-CLK-230** – Click 230 AC surge protector

### Contact us

801.734.7200

[sales@wavetronix.com](mailto:sales@wavetronix.com)

[www.wavetronix.com](http://www.wavetronix.com)

### Testing

- Device is tested by the manufacturer before shipment
- Tested under NEMA TS2-2003

### Extended support

- Extended support options are available from Wavetronix; contact a Wavetronix representative for more information

### Warranty

- One-year warranty against material and workmanship defect (see Click Warranty datasheet for complete details)

## Bid specifications

**1.0 General.** This item shall govern the purchase and installation of 120–240 VAC to 24 VDC 1, 2 and 4 A power supplier (PS) equivalent to the Wavetronix Click 201, 202 and 204 respectively. Test results and other documentation demonstrating performance and capabilities shall be provided.

**2.0 Product description.** The PS provides a regulated 24 VDC output from a 120–240 VAC input of 1 A (Click 201), 2 A (Click 202) or 4 A (Click 204).

**3.0 Physical.** The 1 A PS shall not exceed 0.46 lbs. (0.21 kg) in weight. The 2 A PS shall not exceed 0.55 lbs. (0.25 kg) in weight. The 4 A PS shall not exceed 1.1 lbs. (0.48 kg) in weight.

The 1 A PS shall not exceed 4.5 in. × 3.9 in. × 0.9 in. (11.4 cm × 9.1 cm × 2.3 cm) in its physical dimensions. The 2 A PS shall not exceed 4.5 in. × 3.9 in. × 1.7 in. (11.4 cm × 9.1 cm × 4.3 cm). The 4 A PS shall not exceed 4.2 in. × 3.9 in. × 2.7 in. (10.7 cm × 9.9 cm × 6.8 cm).

The PS shall operate in the temperature range of -29°F to 140°F (-34°C to 60°C), with between 140°F and 165°F (60°C and 74°C) derating.

The PS shall operate in humidity up to 95% RH.

**4.0 Mounting.** The PS shall mount to a DIN rail.

**5.0 Connections.** The PS shall have pluggable screw terminals allowing the user to wire input and output of the AC/DC power supply before installation to make installation easy and to minimize incorrect wiring.

**6.0 Power.** The 1 A PS shall supply 1 A of current when the operating temperature is from -29°F to 140°F (-34°C to 60°C). The 2 A PS shall supply 2 A of current when the operating temperature is from -29°F to 140°F (-34°C to 60°C). The 4 A PS shall supply 4 A of current when the operating temperature is from -29°F to 140°F (-34°C to 60°C).

At temperatures between 140°F to 165°F (60°C and 74°C), output shall decrease at a rate of 2.5% per degree Celsius temperature increase to prevent device from becoming overheated.

The PS shall accept inputs from 100 to 240 VAC at frequency of 45 to 65 Hz.

**7.0 Surge protection.** The PS shall comply with the applicable standards stated in the IEC 61000-4-5 Standard for AC input power lines.

**8.0 Efficiency.** The PS shall have an efficiency of 80% or greater when converting AC input to DC.

**9.0 UL listed.** The PS shall be listed with UL under UL 508 and comply with all applicable UL 508 standards.

**10.0 NEMA TS2-1998 testing.** The 1 A PS and the 2 A PS shall comply with the applicable standards stated in NEMA TS2-1998. Test results shall be made available for these two devices for each of the following tests:

- Shock pulses of 10g, 11 ms half sine wave
- Vibration of 0.5 Grms up to 30 Hz
- 300 V positive/negative pulses applied at one pulse per second at minimum and maximum DC supply voltage
- Cold temperature storage at -49°F (-45°C) for 24 hours
- High temperature storage at 185°F (85°C) for 24 hours
- Low temp, low DC supply voltage at -29.2°F (-34°C) and 10.8 VDC
- Low temp, high DC supply voltage at -29.2°F (-34°C) and 26.5 VDC
- High temp, high DC supply voltage at 165.2°F (74°C) and 26.5 VDC

**11.0 Testing.** Each PS shall be tested by the manufacturer before shipment.

The PS shall comply with the applicable standards stated in the NEMA TS2-2003 Standard.

**12.0 Extended support.** Extended support options shall be available. Contact the manufacturer representative for more information.

**13.0 Warranty.** The PS shall be warranted to be free from material and workmanship defects for a period of one year from date of shipment.