



**50A Automatic Transfer Switch**

**Model:** NGA05031224N

**Certifications & Compliance**

Manufactured and tested in accordance with the following standards:

- UL 1008
- UL 508A
- CAN/CSA C22.2 No.178.1

Compliant with applicable requirements of the National Electrical Code (NEC) and Canadian Electrical Code (CEC)



**Features**

**Automatic Power Switching:** Instantly shifts selected circuits to backup power during outages—no manual action needed.

**High Capacity & Wide Compatibility:** Supports up to 50A and works with most solar generators, battery systems, inverters, and gas generators across 120V–240V setups, including AFCI/GFCI breakers.

**Grid-Tie Inverter Friendly with Parallel Power Path:** Allows grid-tie inverters to operate during outages, routing power to AC-coupled batteries for continued solar use.

**Can Remain on Backup Power even after Utility Power Is Restored:** Keeps using backup power even after utility power returns, without automatic switching.

**Extensive Circuit Coverage:** Manages up to 24 circuits, allowing essential appliances and systems to stay powered during outages.

**Durable, Heavy-Duty Enclosure:** Built with a rugged enclosure designed for dependable performance and long-term reliability in demanding installation environments.

**Complete Connection & Control System:** Includes a CS6375 50A inlet and 50A power cord, plus a centralized control console for system monitoring, testing, and manual power source override.

**Certified for Safety & Code Compliance:** Meets rigorous safety and performance standards including UL 1008 and CAN/CSA C22.2 No. 178.1, with documentation showing compliance under ISO/IEC Guide 17067

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Technical Specification Sheet (Page 2)

Model: NGA05031224N  
Document ID: ATS-50A-001

Electrical Ratings | Circuit Configuration

| Parameter            | Specification        | Parameter        | Specification                              |
|----------------------|----------------------|------------------|--------------------------------------------|
| Rated Current        | 50A                  | Spaces           | 12                                         |
| Voltage              | 120 / 208 / 240 VAC  | Max Circuits     | 24 (with tandem)                           |
| Frequency            | 60 Hz                | Breaker Type     | 1-inch standard                            |
| Bus Rating           | 63A                  | Max per Space    | 2 (tandem)                                 |
| Wire Capacity        | Up to 2 AWG          | Compatible Types | GFCI / AFCI supported                      |
| Voltage Range:       | 80% to 120% of rated | Supported Brands | Siemens/Murray, Eaton, GE, Square D, Noark |
| Load Transition Type | Open transition      |                  |                                            |

Mechanical | Operation

| Parameter   | Specification                          | Parameter         | Specification                      |
|-------------|----------------------------------------|-------------------|------------------------------------|
| Dimensions  | 26 × 15 × 7 in<br>(661 × 381 × 178 mm) | Transfer Time     | < 100 ms                           |
| Weight      | 40.8 lbs (18.5 kg)                     | Transfer Delay    | <1 / 1 / 3 / 5 sec<br>(DIP Switch) |
| Enclosure   | NEMA Type 1                            | Auto Transfer     | Configurable delay                 |
| Mounting    | Vertical wall mount                    | Auto Return       | Optional (DIP switch)              |
| Application | Indoor use                             | Status Indicators | LED (Normal / Backup)              |
| Dead Cover  | Quick Release                          | Manual Operation  | Selectable                         |

Environmental

| Parameter      | Specification                     | Parameter | Specification                             |
|----------------|-----------------------------------|-----------|-------------------------------------------|
| Operating Temp | -40°C to +55°C (-40 °F to 131 °F) | Humidity  | 0–95% RH (non-condensing)                 |
| Storage Temp   | -40°C to +70°C (-40 °F to 158 °F) | Altitude  | Up to 2000 m<br>(approximately 6562 feet) |

General

| Parameter    | Specification | Parameter | Specification           |
|--------------|---------------|-----------|-------------------------|
| Model Number | NGA05031224N  | UPC Code: | 810170210631            |
| Compliances  | SGS / cSGS    | Warranty: | 5 Year limited warranty |

Notes

- Manual operation supported without power.
- Designed for residential backup and generator applications. NOT for critical life support applications.