Power Series Transfer Switch
2,000 – 5,000 Amps
Power Frame Type · Open and Delayed Transition

- Automatic Transfer Switch
- 2,000 – 5,000 A, up to 600 VAC, 50/60 Hz
- 3 or 4 Poles
- NEMA 1 or 3R
- Open with Inphase and Delayed Transition
- UL 1008 Listed
- CSA C22.2 No. 178 Certified

Codes and Standards
Not all codes and standards apply to all configurations. Contact factory for details.

UL 1008 Listed
CSA C22.2 No. 178 Certified
NFPA 37, 70, 99, 110
NEC 700, 701, 702, 708
ISO 3046, 7637, 8528, 9001, Pluses #2b, 4
NEMA ICS10, MG1, 250, ICS6, AB1
ANSI C62.41
IEC 61000 EMC Testing and Measuring

Description
Generac’s Power Frame Type Transfer Switch has exceptional 3 cycle withstand and close on ratings along with high speed switching time of < 3 cycles to minimize the effect of power disturbances. The switching mechanism is enabled for safe manual transfer under load. The Power Frame switch has a standard offering of open transition with inphase or delayed transition with numerous programmable transition timings for transfer and retransfer. With a fully rated 4th pole operating on a common crossbar, the Power Frame switch eliminates the typical problems with a 3 pole overlapping neutral design.

With integral contact wear indication, preventative maintenance can be scheduled when convenient for the user ensuring maximum uptime. System parameters can be uploaded with a USB drive in moments, minimizing installation time.

The control’s 4.3 inch color display and mimic bus diagram simplifies programming, routine operation, data presentation, and setting adjustments. The intuitive, grouped data screens along with the supervisory and highly customizable data acquisition allow the user to configure to their needs. Standard features include Modbus® RTU, extensive user customizable input/outputs, 450 event log with capture for the most recent 12 events, with three phase sensing on both sources, plus load for voltage, frequency, sequencing, loss, and unbalance.
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STANDARD FEATURES

GENERAL
- High Withstand and Closing Ratings
- Safe Manual Transfer Under Load
- Front Access
- Cable or Bus Entry is Top, Bottom or Both
- Isolated Compartments for Improved Safety
- Mimic Diagram with Source Available and Connected LED Indication
- Event Logging and Recording 450 Time-Stamped Events
- System TEST Pushbutton
- Programmable Plant Exerciser
- Field-Selectable Multi-Tap Transformer Panel Permits Operation on a Wide Range of System Voltages
- Modbus® RTU
- ATC-900 Controller
- Operating Temperature -4 ° to 158 °F (-20 ° to 70 °C)

VOLTAGE AND FREQUENCY SENSING
- Three Phase Under and Over Voltage Sensing on Normal and Emergency Sources, Plus Load
- Under and Over Frequency Sensing on Normal, Emergency and Load
- Three Phase Sequence Sensing for Phase Sensitive Loads
- Three Phase Voltage Unbalance and Loss Sensing

CONTACTS
- Source Available:
  - Source-1 Present, 1-N.O. and 1-N.C.
  - Source-2 Present, 1-N.O. and 1-N.C.
- Switch Position:
  - Source-1 Position, 1-N.O. and 1-N.C.
  - Source-2 Position, 1-N.O. and 1-N.C.

STANDARD CONTROL PARAMETERS AVAILABLE
- Up to 20 Available with Expandable Input/Output Modules

Control Inputs (4 Standard)
- Monitor Mode
- Bypass Timers
- Lockout
- Manual Retransfer On/Off
- Manual Retransfer
- Slave In
- Remote Engine Test
- Preferred Source Selection
- Go to Emergency
- Emergency Inhibit
- Go to Neutral

Control Outputs (4 Standard)
- Load Sequence
- Selective Load Shed
- Load Bank Control
- Pre/Post-Transfer
- Pre-Transfer
- User Remote Control
- Source 1 Available (Standard)
- Source 2 Available (Standard)
- Source 1 Connected
- Source 2 Connected
- ATS Not in Automatic
- General Alarm
- ATS in Test
- Engine Test Aborted
- Cooldown in Process
- Engine Start Contact Status
- Generator 1 Start Status
- Generator 2 Start Status
- Emergency Inhibit On

CONFIGURABLE OPTIONS

- Drawout Construction
- Digital Multi-Function Power Quality Metering
- Ethernet Connectivity
- Remote Annunciator Panel with Control
- Remote Multi-Switch Annunciator Panel with Control
- 2 or 4 Position Selector Switch
- Transient Voltage Surge Suppression (TVSS)
- Selectable Retransfer
- Manual Generator Retransfer
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Contact Wear Indication

Drawout Power Case
Switch or Breaker is Optional

ATC-900 Controller

Source 1

Source 2

Keyed Switch for Service Entrance Option

Multi-Tap Transformer

2,000A Drawout
Power Series Transfer Switch
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UNIT DIMENSIONS*

Seismic mounting brace adds an additional 3 inches to each side - front, left and front right side, and an additional 3 inches to the rear side.

<table>
<thead>
<tr>
<th>Amps</th>
<th>Poles</th>
<th>Enclosure Type (NEMA)</th>
<th>A (Height)</th>
<th>B (Width)</th>
<th>C (Depth)</th>
<th>Load Side, Normal and Standby Source</th>
<th>Neutral Connection</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,000</td>
<td>3</td>
<td>1</td>
<td>90.0 (2,286)</td>
<td>32.0 (812)</td>
<td>48.0 (1,219)</td>
<td>(6) 1/0-750 MCM</td>
<td>(24) 4/0-500 MCM</td>
<td>1,050 (477)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3R</td>
<td>90.0 (2,286)</td>
<td>32.0 (812)</td>
<td>63.0 (1,600)</td>
<td>(6) 1/0-750 MCM</td>
<td>(24) 4/0-500 MCM</td>
<td>1,600 (727)</td>
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<tr>
<td></td>
<td>4</td>
<td>1</td>
<td>90.0 (2,286)</td>
<td>32.0 (812)</td>
<td>48.0 (1,219)</td>
<td>(6) 1/0-750 MCM</td>
<td>–</td>
<td>1,250 (568)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3R</td>
<td>90.0 (2,286)</td>
<td>32.0 (812)</td>
<td>63.0 (1,600)</td>
<td>(6) 1/0-750 MCM</td>
<td>–</td>
<td>1,800 (818)</td>
</tr>
<tr>
<td>2,500 – 3,200</td>
<td>3</td>
<td>1</td>
<td>90.0 (2,286)</td>
<td>44.0 (1,117)</td>
<td>48.0 (1,219)</td>
<td>(9) 1/0-750 MCM</td>
<td>(36) 4/0-500 MCM</td>
<td>1,900 (864)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3R</td>
<td>90.0 (2,286)</td>
<td>44.0 (1,117)</td>
<td>63.0 (1,600)</td>
<td>(9) 1/0-750 MCM</td>
<td>(36) 4/0-500 MCM</td>
<td>2,400 (1,091)</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>1</td>
<td>90.0 (2,286)</td>
<td>44.0 (1,117)</td>
<td>48.0 (1,219)</td>
<td>(9) 1/0-750 MCM</td>
<td>–</td>
<td>2,000 (969)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3R</td>
<td>90.0 (2,286)</td>
<td>44.0 (1,117)</td>
<td>63.0 (1,600)</td>
<td>(9) 1/0-750 MCM</td>
<td>–</td>
<td>2,500 (1,136)</td>
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</tbody>
</table>

* All measurements are approximate and for estimation purposes only. Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.
**Power Series Transfer Switch**

2,000 – 5,000 Amps

Power Frame Type · Open and Delayed Transition

#### UNIT DIMENSIONS*

Seismic mounting brace adds an additional 3 inches to each side - front left and front right side and 3 inches additional to rear side

<table>
<thead>
<tr>
<th>Amperes</th>
<th>Poles</th>
<th>Enclosure Type (NEMA)</th>
<th>Cu/Al</th>
<th>Neutral Connection</th>
<th>Weight</th>
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<tbody>
<tr>
<td>2,000</td>
<td>3</td>
<td>90.0 (2,286) 32.0 (812) 60.0 (1,524)</td>
<td>600 V (kA)</td>
<td>(6) 1/0-750 MCM (24) 4/0-500 MCM</td>
<td>1,600 (727)</td>
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<tr>
<td></td>
<td>3R</td>
<td>90.0 (2,286) 32.0 (812) 75.0 (1,905)</td>
<td>600 V (kA)</td>
<td>(6) 1/0-750 MCM (24) 4/0-500 MCM</td>
<td>2,100 (955)</td>
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<td>2,500 – 3,200</td>
<td>3</td>
<td>90.0 (2,286) 44.0 (1,117) 60.0 (1,524)</td>
<td>600 V (kA)</td>
<td>(9) 1/0-750 MCM (36) 4/0-500 MCM</td>
<td>2,500 (1,136)</td>
</tr>
<tr>
<td></td>
<td>3R</td>
<td>90.0 (2,286) 44.0 (1,117) 75.0 (1,905)</td>
<td>600 V (kA)</td>
<td>(9) 1/0-750 MCM (36) 4/0-500 MCM</td>
<td>3,000 (1,364)</td>
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<tr>
<td>4</td>
<td>1</td>
<td>90.0 (2,286) 44.0 (1,117) 60.0 (1,524)</td>
<td>600 V (kA)</td>
<td>(9) 1/0-750 MCM (36) 4/0-500 MCM</td>
<td>2,800 (1,273)</td>
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<tr>
<td></td>
<td>3R</td>
<td>90.0 (2,286) 44.0 (1,117) 75.0 (1,905)</td>
<td>600 V (kA)</td>
<td>(9) 1/0-750 MCM (36) 4/0-500 MCM</td>
<td>3,300 (1,500)</td>
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</table>

For 4,000 and 5,000 A dimensions, please contact factory

#### UL 1008 Withstand and Closing Ratings

<table>
<thead>
<tr>
<th>Ampere Rating</th>
<th>3 Cycle 600 V (kA)</th>
<th>30 Cycle² 600 V (kA)</th>
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<tbody>
<tr>
<td>2,000</td>
<td>100</td>
<td>85</td>
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<tr>
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<td>3,200</td>
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<tr>
<td>4,000</td>
<td>100</td>
<td>85</td>
</tr>
<tr>
<td>5,000</td>
<td>–</td>
<td>85¹</td>
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</tbody>
</table>

¹ UL 1066 short-time withstand rating
² Ratings used for coordination with upstream breakers with short-time ratings

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