Power Series Transfer Switch
1,600 – 5,000 Amps
Power Frame Type · Closed Transition

- Automatic Transfer Switch
- 1,600 – 5,000 A, up to 600 VAC, 50/60 Hz
- 3 or 4 Poles
- NEMA 1 or 3R
- Closed Transition
- UL1008 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 less than 3 cycles to minimize the effect of power disturbances. The switching mechanism is enabled for safe manual transfer under load. 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 color display and mimic bus diagrams 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 customize to their needs. Standard features include Modbus® RTU, extensive user customizable input/outputs, 450 event log with event capture for the most recent 12, with three phase sensing on both sources, plus load for voltage, frequency, sequencing, loss, and unbalance.

An automatic closed transition transfer switch (make-before-break) requires the normal and emergency sources to be synchronized. The controller monitors the voltage and frequency of both power sources with an anticipatory algorithm; phase angles must be within 8 electrical degrees. A synchronization timer is initiated (TSCT, 1-60 min adjustable) to complete the transfer and parallels 100ms or less. The switch will operate in open transition mode if there is a fail to transfer in closed transition, and a Closed Transition Fail error will be displayed.
Power Series Transfer Switch
1,600 – 5,000 Amps
Power Frame Type · Closed Transition

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
- Three Phase Under and Over Voltage Sensing on Load
- Under and Over Frequency Sensing on Normal and Emergency
- Selectable Settings: Single or Three Phase Voltage Sensing on Normal, Emergency and Load 50 or 60Hz
- Phase Sequence Sensing for Phase Sensitive Loads

CONFIGURABLE OPTIONS

- Digital Multi-Function Power Quality Metering
- Ethernet Connectivity
- Drawout Construction
- Remote Annunciator Panel with Control
- Remote Multi-Switch Annunciator Panel with Control
- Transient Voltage Surge Suppression (TVSS)
- Padlockable Cover for Controller
- Padlockable Cover for Device Panel
- Selectable Retransfer
- Manual Generator Retransfer
- Maintenance Selector Switch

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
- Up to 20 Parameters 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
Power Series Transfer Switch
1,600 – 5,000 Amps
Power Frame Type · Closed Transition

Contact Wear Indication

ATC-900 Controller

Source 1

Source 2

Keyed Switch for Service Entrance Option

Multi-Tap Transformer

2,000A Drawout

Drawout Power Case Switch or Breaker is Optional
Power Series Transfer Switch
1,600 – 5,000 Amps
Power Frame Type · Closed Transition

**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.

### Power Frame Type, Closed Transition, 1,600 – 3,200 A, Fixed Mount

<table>
<thead>
<tr>
<th>Amperes</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>1,600 – 2,000</td>
<td>3</td>
<td>1</td>
<td>90.0 (2,286)</td>
<td>32.0 (813)</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 (813)</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>
</tr>
<tr>
<td></td>
<td></td>
<td>4</td>
<td>90.0 (2,286)</td>
<td>32.0 (813)</td>
<td>48.0 (1,219)</td>
<td>(6) 1/0-750 MCM</td>
<td>–</td>
<td>1,250 (568)</td>
</tr>
<tr>
<td>2,500 – 3,200</td>
<td>3</td>
<td>1</td>
<td>90.0 (2,286)</td>
<td>44.0 (1,118)</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 (1,118)</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></td>
<td>4</td>
<td>90.0 (2,286)</td>
<td>44.0 (1,118)</td>
<td>48.0 (1,219)</td>
<td>(9) 1/0-750 MCM</td>
<td>–</td>
<td>2,000 (909)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3R</td>
<td>90.0 (2,286)</td>
<td>44.0 (1,118)</td>
<td>63.0 (1,600)</td>
<td>(9) 1/0-750 MCM</td>
<td>–</td>
<td>2,500 (1,136)</td>
</tr>
</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
1,600 – 5,000 Amps
Power Frame Type · Closed 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

### Power Frame Type, Closed Transition, 1,600 – 5,000 A, Drawout

<table>
<thead>
<tr>
<th>Amperes</th>
<th>Poles</th>
<th>Enclosure Type (NEMA)</th>
<th>in (mm)</th>
<th>Cu/Al</th>
<th>lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>A (Height)</td>
<td>B (Width)</td>
<td>C (Depth)</td>
<td>Load Side, Normal and Standby Source</td>
</tr>
<tr>
<td>1,600 – 2,000</td>
<td>3</td>
<td>90.0 (2,286)</td>
<td>32.0 (813)</td>
<td>60.0 (1,524)</td>
<td>(6) 1/0-750 MCM</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>90.0 (2,286)</td>
<td>32.0 (813)</td>
<td>60.0 (1,524)</td>
<td>(6) 1/0-750 MCM</td>
</tr>
<tr>
<td>2,500 – 3,200</td>
<td>3</td>
<td>90.0 (2,286)</td>
<td>44.0 (1,118)</td>
<td>60.0 (1,524)</td>
<td>(9) 1/0-750 MCM</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>90.0 (2,286)</td>
<td>44.0 (1,118)</td>
<td>60.0 (1,524)</td>
<td>(9) 1/0-750 MCM</td>
</tr>
</tbody>
</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>Rating When Used with Upstream Circuit Breaker</th>
<th>3 Cycle 600 V (kA)</th>
<th>30 Cycle* 600 V (kA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,600</td>
<td></td>
<td>100</td>
<td>85</td>
</tr>
<tr>
<td>2,000</td>
<td></td>
<td>100</td>
<td>85</td>
</tr>
<tr>
<td>2,500</td>
<td></td>
<td>100</td>
<td>85</td>
</tr>
<tr>
<td>3,000</td>
<td></td>
<td>100</td>
<td>85</td>
</tr>
<tr>
<td>3,200</td>
<td></td>
<td>100</td>
<td>85</td>
</tr>
<tr>
<td>4,000</td>
<td></td>
<td>100</td>
<td>85</td>
</tr>
<tr>
<td>5,000</td>
<td></td>
<td>–</td>
<td>85</td>
</tr>
</tbody>
</table>

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

* 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.