

AA-3S PTC Series

*Featuring an ASCO® Automatic and Manual Transfer Switch for Alternative Power Sources
(without a load center to enable 3-source site retrofits without re-wiring of loads)*



The AA-3S Power Transfer Center (PTC) Series offers space-savings and installation convenience for upgrade or retrofit of sites with an existing “wired” load center. The AA-3S PTC features the ability to switch from the utility (or “normal” source) to either a permanent or mobile emergency power source.

The PTC includes an ASCO Series 300 ATS to switch between the utility and emergency power and a mechanically interlocked manual transfer switch to change between a permanent or mobile emergency power source. This Series offers custom-configured integrated “3-source” panels, designed to meet your specific performance standards. The robust ASCO Series 300 switch features a double throw, single solenoid transfer mechanism, microprocessor controls, is UL 1008 Listed and complies with NFPA 110 for emergency and standby power systems.

AA-3S PTC Series panels safeguard critical loads from transients and load transfer spikes using Strikesorb® surge suppression. Strikesorb incorporates state of the art technological developments that provide superior protection characteristics, which remain unchanged throughout its long service life. It is designed to withstand repeated surges providing cost-effective and maintenance-free operation in demanding environments. Critical loads are never left unprotected, as Strikesorb will operate to a short circuit and trip the main disconnect breaker in the event of a long duration, potentially catastrophic overvoltage event.

AA-3S PTC panels are tailored for single-phase, 240/120, and three-phase, 208/120, 200 and 400 amp applications rated up to 42kAIC. These panels enable existing sites, with pre-wired load centers, to be upgraded to 3-source capability with Strikesorb surge protection for critical loads.

For more information on the AA-3S PTL Series, or for details on other PTL models, e-mail Intersect today at solutions@intersectinc.com.

Intersect, Inc.

Quality products. Premium customer care. Integrated solutions.

Series Number	Product Configuration
AA12200-3S-3R-CL-L	240/120, single phase, 200A, 3-source (no load center)
AA12200-3S-3R-CL-R	240/120, single phase, 200A, 3-source (no load center)
AA33200-3S-3R-CL-L	208/120, three phase, 200A, 3-source (no load center)
AA33200-3S-3R-CL-R	208/120, three phase, 200A, 3-source (no load center)
AA12400-3S-3R-CL-L	240/120, single phase, 400A, 3-source (no load center)
AA12400-3S-3R-CL-R	240/120, single phase, 400A, 3-source (no load center)
Built-In Accessory	Description
Opt 11BG	Programmable Engine Exerciser - seven-day electronic time switch provides automatic weekly or bi-weekly testing of the engine generator set either with or without load, and offers relay contacts for remote status monitoring.
VM	Utility voltage monitor with relay contacts for normal power source.
Other service voltages and amperages are available. Custom panels can be designed to your performance specifications. Contact Intersect: solutions@intersectinc.com	

General Data

Enclosure weight and dimensions

Varies by service voltage and amperage.
Request specific panel drawings for this product information.

Service voltage

- 240/120 VAC, single-phase, 200A & 400A
- 208/120 VAC, three-phase, 200A only

Bus bar

Isolated ground bar

UL certification

- UL 67 listed panel
- Service entrance rated

Manual Transfer Switch

Type

- Mechanically interlocked breakers for permanent or alternative power source
- Enables manual transfer between permanent and temporary power source (10 kA at 240 VAC)

Square D input breaker

- 200 amps

Source circuit breaker

Permanent & alternative emergency power

Withstand current rating (WCR)

10,000 amps

Automatic Transfer Switch

Type

ASCO – Automatic

Transfer device

- Single solenoid operation
- Microprocessor controls
- Double throw operation

Engine starting contact

Connect signal wires to auto-start engine generator set

Engine exerciser

- Built-in, 20-minute exerciser
- See Option 11BG in table for further details

Source circuit breakers

Source breakers rated to 400 A

Available interrupt current (AIC)

42,000 – Normal source 200 A breaker
10,000 – Alternative source breakers
Mechanically interlocked

UL certification & other safety compliances

- UL 1008, Standard for transfer switch equipment
- NFPA 110 for Emergency and Standby Power Systems
- NEC Articles 700, 701 and 702
- CSA Standard C22.2 for automatic transfer switches

Suppression Technology

Surge Protection Levels

Response time

<1 ns

Maximum surge current

- Surge current, i_{max} (8/20) NEMA LS-1: 140 kA
- Lightning current, i_{imp} (10/350) IEC 61643-1: 7.5 kA

Let through voltage level

For surge current 10 kA (8/20) IEEE C62.41-1:
435 V - actual surge current through Strikesorb

Long duration surge performance

500 A square waveform 2 ms IEEE C62.11:
250 hits

Voltage protection rating (VPR)

600 V per UL 1449 3rd edition

Short Circuit Current Rating

- Tested for safe installation behind a 4000 A Class L time delay fuse at available fault current 200 kA
- 3-cycle testing at 85 kA

Standards Compliance

- IEEE C62.41, IEEE C62.45, IEEE C62.11, NEMA LS-1
- IEC 61643-1 ed 2:2005, EN 61642-A11:2005, IEC 61643-12

Listings

UL 1449 3rd edition (or current), CE, VDE

1. Please refer to Strikesorb data sheet for complete product specifications.

Intersect, Inc.