

AA-CL-T-3S PTLC Series

ATS Power Transfer Load Center with an Integrated Telco Cabinet

The AA-CL-T-3S is an outdoor PTLC that features separate AC and Telco chambers. The AC chamber includes a 42k AIC main disconnect breaker for normal (utility) power. When the normal power source is not available, an ASCO® Series 300 automatic transfer switch connects to a permanent or temporary alternative power source. Mechanically interlocked 10 kAIC main disconnect breakers allow manual transfer between the permanent and temporary sources.



The AA-CL-T-3S Series also features a Square D load center; Strikesorb® surge suppression; a utility voltage sensing relay; a Cam-Lok style engine generator connector panel, mounted on the left or right; and a ground fault circuit interrupter (GFCI) circuit breaker wired to a duplex outlet in the Telco chamber.

A double throw, single solenoid transfer mechanism and microprocessor controls in the ASCO Series 300 automatic transfer switch adjust to input from the primary power source or generator, depending on site conditions. The robust ASCO switch is UL 1008 Listed and complies with NFPA 110 for emergency and standby power systems.

To protect connected equipment, the AA-CL-3S PTLC safeguards 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.

A 42-position Square D load center provides the flexibility to distribute 200 amp, 240/120 single-phase or 208/120 three-phase power to a variety of site equipment.

The Telco chamber has a plywood backboard with three knockouts for cable entry centered above the backboard. Included in the Telco chamber is a 20-amp duplex receptacle fed from a GFCI circuit breaker (located in the upper, AC chamber.)

For more information about the AA-CL-T-3S Series panels, or other PTLC models, e-mail Intersect today at solutions@intersectinc.com.

Intersect, Inc.

Quality products. Premium customer care. Integrated solutions.

Series Number	Product Configuration
AA1220042-3R-CL-T-L	240/120; 1Ø; 200 amp; 42 kAIC; utility and permanent or temporary power sources (3-sources); left-mount Cam Lok-style engine generator connector
AA1220042-3R-CL-T-R	240/120; 1Ø; 200 amp; 42 kAIC; utility and permanent or temporary power sources (3-sources); right-mount Cam Lok-style engine generator connector
AA3320042-3R-CL-T-L	208/120; 3Ø; 200 amp; 42 kAIC; utility and permanent or temporary power sources (3-sources); left-mount Cam-Lok style engine generator connector
AA3320042-3R-CL-T-R	208/120; 3Ø; 200 amp; 42 kAIC; utility and permanent or temporary power sources (3-sources); right-mount Cam-Lok style engine generator connector
Option Number	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.
Other service voltages and amperages are available. Custom panels can be designed to your performance specifications. Contact Intersect: solutions@intersectinc.com	

General Data

Overall enclosure weight and dimensions

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

AC cabinet dimensions (H x W x D)

53 x 29 x 12 inches

Telco cabinet dimensions (H x W x D)

20 x 29 x 12 inches

Enclosure type

- NEMA 3R
- 0.008 aluminum construction

Service voltage

- 200 amp
- 240/120
- 208/120

Voltage sensing relay

- Senses “utility” or normal source voltage
- Installed on “line” side of main disconnect breaker

UL certification

- UL 67 listed panel
- Service entrance rated

Cam-Lok Style Panel

Model

Micrin or Intersect ICL

Color coded Cam-Lok Connectors

- Green – Ground
- White – Neutral
- Black – Line 1
- Red – Line 2
- Blue – Line 3

UL Certification

UL 1008 listed

Load Center

Load center type

Square D

Circuit breaker positions

42 circuits

Circuit breaker type

Square D bolt-on or plug-in branch devices

Telco Cabinet

Duplex receptacle

- 15 amp GFCI circuit breaker
- 120 V

Terminal bar

- Insulated
- Ground connection

AC service connection

Two, 2-inch nonmetallic conduits

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 – 300L Series

Power transfer mechanism

- Single solenoid operation
- Microprocessor controller
- Double throw operation

Engine starting contact

Connect signal wires to auto-start engine generator set

Source circuit breaker

- Normal (utility power)
- 200 amp, 60 Hz

Engine exerciser

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

Withstand current rating (WCR)

42,000 amps

UL certification & other safety compliances

- UL 1008, standard for transfer switch equipment
- CSA standard C22.2 for automatic transfer switches
- NFPA 110 for emergency and standby power systems
- NEC Articles 700, 701, and 702

Suppression Technology

Technology type

Strikesorb 40-A¹, 120 V modules

Surge Protection Levels

Response time

<1 ns

Maximum surge current

- Surge current, imax (8/20) NEMA LS-1: 140 kA
- Lightning current, limp (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

Intersect, Inc.

All specifications subject to change without notice.

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