Since introducing the first power transfer switch in 1920, ASCO has been committed to providing reliable technology, support, reports and solutions to transfer power switching and control requirements for critical operations. Throughout the more than 90 years of power transfer technology development, ASCO has taken every significant product innovation to the industry.

The 336 Paralleling System, available from 208 to 600 Volts, is the first transfer switch-based paralleling system on the market. It combines robust UL approved components in a standardized design that brings added flexibility, reliability, and cost savings to any project.

A Superior Choice

**Revolutionary Design**

Emerson Network Power - Global Headquarters
1050 Dearborn Drive
Columbus, OH 43085
Tel: +1 614 888 0246

ASCO Power Technologies - Global Headquarters
50 Hanover Road
Florham Park, NJ 07932
800-800-ASCO

www.ascoapu.com

Power transfer at your fingertips.

Revolutionary Design

In the realm of the 336 Paralleling System is a field proven closed transition transfer switch (CTTS). This highly reliable mechanism is studied by all to have more endurance than comparable products. Incorporating advanced components into the 336 Paralleling System helps to make it a superior alternative to conventional circuit breaker-based systems.

Living off power from the generators to control the CTTS with latest control system technology, the 336 Paralleling System can detect and recover accordingly from common problems and automatically start the next generator in the system. This design technique eliminates the need for costly and maintenance-prone lead-acid batteries often found in conventional type paralleling systems.

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A Superior Choice

**Feature**

Revolutionary CTTS-based design

High reliability and endurance

Utilizes generator power for switching

Eliminates costly and maintenance-prone lead-acid batteries

Exclusive load management feature

Maximum protection of priority one loads

Handles all generator grounding configurations

Generators with different DC grounded schemes can be paralleled safely

Compact modular design

Minimal configuration eliminates job-specific engineering; easy to expand

Simple operation

Entire system starts with single contact or door control switch

Digital Link

Distributed Control, No Master Control Required

**Benefit**

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That leadership and commitment to innovation continues with the 336 Paralleling System. Incorporating field-proven, reliable technology in a patented dual operator transfer switch mechanism, the 336 Paralleling System meets the needs of design build projects: cost effective, reliability, and quick delivery.

The 336 Paralleling System, available from 208 to 600 Volts, is the first transfer switch-based paralleling system on the market. It conditions a single source to emergency power with the same benefits of a paralleling system but without the limitations of the conventional switchgear systems. This design technique eliminates the need for costly and maintenance-prone lead-acid batteries often found in conventional paralleling systems.

A Superior Choice

**Feature**

- Revolutionary CTTS-based design
- High reliability and endurance
- Utilizes generator power for switching
- Eliminates costly and maintenance-prone, lead-acid batteries
- Exclusive load management feature
- Maximum protection of priority one loads
- Handles all generator grounding configurations
- Generators with different DC grounded schemes can be paralleled safely
- Compact modular design
- Minimal configuration eliminates job-specific engineering; easy to expand
- Simple operation

**Benefit**

- High reliability and endurance
- Eliminates costly and maintenance-prone, lead-acid batteries
- Maximum protection of priority one loads
- Safe paralleling of generators with different grounding schemes
- Easy expansion
- Simple operation

---

Power transfer at your fingertips.

Redefining Paralleling Systems.

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E M E R S O N, C O N S I D E R I T S O L V E D.
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A Superior Choice

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revolution Design</td>
<td>Revolutionary CTTS-based design for high reliability and endurance</td>
</tr>
<tr>
<td>Utilizes Generator Power</td>
<td>Utilizes generator power for switching, eliminating costly and maintenance-prone lead-acid batteries</td>
</tr>
<tr>
<td>Exclusive Load Management Feature</td>
<td>Maximum protection of priority one loads</td>
</tr>
<tr>
<td>Handles all Generator Grounding Configurations</td>
<td>Generators with different DC grounded schemes can be paralleled safely</td>
</tr>
<tr>
<td>Compact Modular Design</td>
<td>Minimum configuration eliminates job-specific engineering; easy to expand</td>
</tr>
<tr>
<td>Simple Operation</td>
<td>Entire system starts with a single contact or door control switch</td>
</tr>
</tbody>
</table>

Distributed Control, No Master Control Required

Power transfer at your fingertips.
Powerful Management Tools

ASCO innovation has made it possible to develop the 336 Paralleling System, a product that revolutionizes the way power is managed. The 336 Paralleling System automatically communicates with the genset control panels to ensure optimal operation and efficiency.

Parallel Dissimilar Generators

With the 336 Paralleling System, it is now possible to connect generators of different sizes and types. This unique approach works with any number of generators running.

High Reliability

The 336 Paralleling System features a hard-wired design that ensures the highest level of reliability. The system provides added redundancy to compensate for any system failure, ensuring that all equipment is protected.

Easy Expandability

The 336 Paralleling System design allows for an unprecedented level of reliability and expandability. This feature is available for both new installations and existing systems. The system can be easily expanded to accommodate any changes in power requirements.

Intuitive Operation

A simple control interface on the 336 Paralleling System allows for easy operation and monitoring. The system features programmable tri-color LEDs and 8 programmable push buttons, making it easy to control and monitor the system.

Fits in Any Application

The flexibility and adaptability of the 336 Paralleling System make it perfect for a variety of environments. The reliability, size, and cost benefits make the 336 Paralleling System an excellent solution for applications ranging from small businesses to large industrial operations.

Standard Accessories compatible with 336/337:
- Consult factory for details.
- Isolated power supplies are required for installations where the generators' DC systems have dissimilar grounding schemes or switchgear.
- Optional Output Distribution breakers or Load Panel(s)
- Cabling access:

336 Ordering Information

- Color HMI. A 7" color touchscreen, the ASCO TDI. 1 HMI per 336. 1 HMI per 337. Preloaded with ASCO PowerQuest – The 336 Paralleling System can be used as a Parallel Power Island (PPI) or prime power system at fracking sites that require temporary primary power.
- HVAC – the ideal solution for heating and cooling applications. The system can be used to supply power to generators or switchgear.
- Hospitals and healthcare clinics can utilize the 336 Paralleling System to seamlessly maintain your critical loads. If a genset system automatically communicates with the genset control panels to ensure optimal operation and efficiency.

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Powerful Management Tools

43200 innovations make it the development of Power Management software with a robust control system necessary for everyday use. The ASCO 336 Paralleling System is simple and easy to understand. A robust, general purpose control system option – the ASCO 336 Paralleling System – is a part of any generator system, regardless of size or manufacturer. The system allows generation of different DC grounding schemes to be paralleled.

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336 Ordering Information

**336 Amp Ratings**

- **336 Dimensions**
  - **2. Amp Rating** is either the sum of generator rated currents or rounded up to the next available rating size equal to or less than the largest generator.
  - **Options! If 336 has 160PM or 160PS, be sure to order the same options for the 337.**

**336 Accessory Specifics** for 336 products with start & stop included:

- 160CD: Color HMI. A 7" color touchscreen, the ASCO TDI. 1 HMI per 336. 1 HMI per 337. Preloaded with ASCO Run Time Management or Run Time Equalization.
- 160PM or 160PS: Color HMI. A 7" color touchscreen, the ASCO TDI. 1 HMI per 336. 1 HMI per 337. Preloaded with ASCO Run Time Management or Run Time Equalization.

**336 Product Components**

- **Master Control Panel/Option/Power Management**
  - Gen 1 and 2: 32x37
  - Gen 1 1-Cell NEC: 475x37
  - Gen 1 2-Cell NEC: 475x37
  - Gen 1 3-Cell NEC: 475x37
  - Gen 2 BEP: 475x37
  - Gen 2 1-Cell NEC: 475x37
  - Gen 2 2-Cell NEC: 475x37
  - Gen 2 3-Cell NEC: 475x37
  - Gen 2 4-Cell NEC: 475x37
  - Gen 2 5-Cell NEC: 475x37
  - Gen 2 6-Cell NEC: 475x37
  - Gen 2 7-Cell NEC: 475x37
  - Gen 2 8-Cell NEC: 475x37
  - Gen 2 One Unit: 475x37

**Includable Accessories**

- 160PM: Standard accessories compatible with 336/337: inverters, tie breakers, and mate.
- 160PS: Standard accessories compatible with 336/337: inverters, tie breakers, and mate.

**Power Management Tools**

- 336 Paralleling System brings an unprecedented level of reliability, size and cost benefits make the 336 Paralleling System a perfect solution to meet demand in any application. Hospitals and healthcare clinics can utilize the Parallel Power Island (PPI) or prime power system at fracking operations. The 336 Paralleling System can serve as a generator system to a four-unit configuration. The flexible design will allow the entire system to be started with a single contact...
**336 Ordering Information**

<table>
<thead>
<tr>
<th>G</th>
<th>0</th>
<th>0</th>
<th>3</th>
<th>3</th>
<th>6</th>
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<th>3*</th>
<th>1200*</th>
<th>N*</th>
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<td>Future use</td>
<td>Future use</td>
<td>B=Switched Neutral</td>
<td>B=Switched Neutral</td>
<td>2=No accessories or distribution</td>
<td>3=Standard accessories</td>
<td>4=Custom distribution panel(s) and/or accessories required</td>
<td>Add details in notes</td>
<td>C=Outdoor, Type 1</td>
<td></td>
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<tr>
<td>G=H</td>
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<td></td>
</tr>
</tbody>
</table>

*Note: These are all configured for 3 phase, so there is no voltage code for 120V or 277V.

1. Modularity/expandability: a 337 may be added later to a 336 system, provided the power distribution bus, if any, is done correctly. Be sure to match options! If 336 has 160PM or 160PS, be sure to order the same options for the 337.

2. Amp Rating is either the sum of generator rated currents rounded up to the next available rating size or equal to or less than the largest generator. Example: two 600A gensets will use a 1200 Amp Rating. Larger generators may be possible, please consult factory. Amp Rating automatically selects frame size in a cumulative configuration CT ratio.

**336 Amp Ratings**

<table>
<thead>
<tr>
<th>Amp rating choices</th>
<th>frame</th>
<th>CT ratio</th>
<th>Max recommended Per Gen KVA/KW @ .8PF &amp; 480V</th>
<th>Max recommended Per Gen KVA/KW @ .8PF &amp; 240V</th>
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<tr>
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<tr>
<td>800</td>
<td>H</td>
<td>400/5</td>
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**336 Dimensions**

<table>
<thead>
<tr>
<th>Sizes</th>
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<th>Optional Deep cabinet, no distribution</th>
<th>Standard, no distribution</th>
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<tr>
<td>Frame</td>
<td>H</td>
<td>W</td>
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<tr>
<td>1200</td>
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<tr>
<td>4000</td>
<td>91</td>
<td>60</td>
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</tbody>
</table>

**Standard Accessories compatible with 336/337:** Consult factory for details.

44A (space heaters), 73 (surge arrestor), 131 (ARRA compliance certification)

**Accessories specific for 300 series products all start with 160:**

**160PM:** Power Management includes: (On 4 gen systems, must be ordered on both 336 and 337 to work properly.)
- 4 levels of Load Management (Load Shed/Load Add), Priority 1 never sheds. Priority 2, 3, 4 loads are managed via ASCO option 30A in load ATS’s.
- Bus Optimization (Gen Shed/Gen Add).
- Start Next Gen on Alarm.
- Run Time Management or Run Time Equalization.

**160PS:** Isolated power supplies are required for installations where the generators’ DC systems have dissimilar grounding schemes and recommended for all installations. Consult product information for more details. Must be ordered on both 336 and 337 products for proper operation.

**160DS:** Dissimilar Sized Gensets. Standard configuration is with 2 generators of the same size; order this option if the installation has 2 different sized generators. Sums of the currents must be below the Amp Rating. Specify gen sizes in notes.

**160CD:** Custom Drawings. Generic drawings are standard. For custom or “as installed” drawings, purchase this option.

**161TD1:** Color HMI. A 7” color touchscreen, the ASCO TDI. 1 HMI per 336. 1 HMI per 337. Preloaded with ASCO standard screens. Each HMI will display the data for the 2 gens in that section/on that CTTS. Includes a 72EE as an Ethernet switch. Consult product information for more details.

**160LU:** For special lugs

**Cabling access:**

1200A and below: Standard is front access for connections, optional rear access.
1201A and above is always rear access.

**Optional Output Distribution breakers or Load Panel(s)** requests are custom engineered and quoted for the specific project with UL891 switchgear with either UL489 or UL1066 style breakers. Contact 800-800-ASCO or E-mail customercare@asco.com for technical questions, delivery times, and pricing.
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Since introducing the first power transfer switch in 1920, ASCO has been committed to providing reliable technology, superior support and dedicated field service to satisfy power switching and controls requirements for critical operations. Throughout the more than 90 years of power transfer technology development, ASCO has led every significant product innovation in the industry.

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The 336 Paralleling System, available from 208 to 600 Volts, is the first transfer switch-based paralleling system on the market. It combines robust UL approved components in a standardized design that brings added flexibility, reliability, and cost savings to any project.

A Superior Choice

<table>
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Power transfer at your fingertips.

Redefining Paralleling Systems.

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