Integrated Power Center 2 (IPC2)
Space saving designs that save time and reduce costs
What does IPC2 stand for?

The Integrated Power Center 2 (IPC2) is a family of Square D™ Integrated Equipment products. The IPC2 product line, includes free-standing front- and rear-aligned equipment available in multiple enclosure options, including NEMA® 1, NEMA 1 with driphood, and NEMA 3R.

These solutions increase the flexibility of our integrated equipment offer, providing you options for increasingly diverse applications, including retail, commercial, healthcare, education, and industrial.

Less and less square footage is being allocated in electrical rooms for consulting engineers these days. At the same time, there is also more pressure than ever to complete building projects fast, so building owners can start collecting return on their investment and reduce their payback period. This means less space and less time for the electrical distribution infrastructure installation.

Integrated line-ups are configured based upon customer-specific requirements. Electrical distribution equipment and building controls are factory-installed and pre-wired in a controlled environment saving valuable material handling and installation time at the job site. Close coupling between sections eliminates additional material, including wire, conduit, and fittings. And, because components are stacked, there is a reduced amount of floor and wall space required.

All in all, the IPC2 is an efficient, cost-effective solution. IPC2 line-ups can be applied throughout your facility wherever multiple panelboards, transformers, and/or lighting contactors are installed in close proximity.

☑️ The most trusted name in the industry for quality, service, and value.
IPC2 stands for **Savings**

**Improved floor and wall space required**
- Panels, transformers, contactors, automatic transfer switches, individually-mounted breakers, and meters can be configured, reducing the overall footprint and saving valuable floor and wall space.

**Quick on-site installation**
- All equipment is factory mounted, assembled, and cabled inside the enclosure(s), meaning installation can take hours rather than days.
- Contractor labor risk is minimized due to a reduction in installation hours.

**Reduced material costs and handling**
- There are fewer items to receive, inventory, retrieve, and install.
- Wiring between internal components of the section(s) is done in the factory, saving labor and eliminating conduit, wire, and fittings.

**Saves design time**
- Customer-specific designs can be standardized for multiple locations which optimizes installation performance.

**Complies with NEC and UL requirements**
- IPC2 equipment is designed and manufactured to comply with the National Electric Code® (NEC) and UL® requirements.
- IPC2 equipment is seismically certified to ICC ES AC 156 seismic testing protocol.
- Electrical distribution equipment is factory assembled and tested in a controlled factory environment, ensuring the highest quality standards.

**Flexible conduit entry and/or exit**
- The IPC2 product line provides the flexibility to enter and/or exit the section from either the top or bottom, saving installation time and materials.
IPC2 stands for **Innovative Design**

The IPC2 transformer combo was the first member of the IPC2 family, and is ideally suited for projects that have both 480Y/277V and 208Y/120V requirements. The panels and transformer are installed and pre-wired at the factory in a single enclosure, eliminating conduit, wire, and fittings. And because the IPC2 transformer combo is shipped as an integrated system, there are fewer pieces to receive, manage, and install, dramatically reducing installation time and material handling costs.

**Improves floor and wall space requirements**

Installing an IPC2 transformer combo configuration reduces the required floor and wall space by 40 percent or more when compared to a traditional stick-built installation.

**Standard construction**

- Hinged panelboard access door with keyed door lock
- Hinged panelboard wire gutter access door
- Factory-installed power cables
- Top and bottom conduit entry/exit space available
- Available as a stand-alone solution or can be close-coupled to Square D:
  - Integrated Power Center 2 (IPC2)
  - Integrated Power Center (IPC)
  - Modular Panelboard System (MPS)
  - QED Switchboards

**Award-winning design**

Recognized by the industry for its innovative space-savings and labor-savings design, the IPC2 Transformer Combo received two prestigious awards:

- The 2006 INNOVATION Award, given by Electrical Contracting Products magazine
- The 2006 Product of the Year Gold Award, given by Consulting-Specifying Engineer magazine

> Sections can be fed from the top or bottom.
IPC2 stands for **Flexibility**

For more complex designs, the IPC2 family allows for the customer-designed solutions with the integration of a variety of products, including electrical distribution equipment, HVAC controls, lighting controls, automatic transfer switches, power quality, power, conditioning products, surge suppression, and building management systems.

**Key features of the IPC2 design**

- "Panels over Panels" configurations
- "Panels over Transformer" configurations
- Integrated automatic transfer switches
- Freestanding construction that can be close-coupled to QED switchboards
- Front- and rear-aligned sections, available in multiple widths
- Available in NEMA 1, NEMA 1 with driphood and NEMA 3R construction
- Powerlink™ lighting control solutions
- PowerLogic™ power monitoring and control

As with all of our integrated solutions, IPC2 line-ups are shipped to the site pre-wired, fully assembled, pre-tested, and ready to install.

IPC2 line-ups provide maximum flexibility to meet customers’ specifications. Sections are 91.5” high with varying widths and depths, depending on section configurations. Refer to the IPC2 Application Guide (document number 2230DB0601R03/09) for available interior options.
IPC2 stands for Quality Construction

**UL 891 - deadfront switchboard**
- Enclosure dimensions
  - All sections are 91.5” high
  - Standard widths: 24”, 30”, 36”, 42”, and 48”
  - Standard depths: 24” and 36”
- Corner sections are available
- Seismically qualified to meet IBC and ASCE 7 requirements
- Panelboard with door-in-door construction
  - Panelboard deadfront access door with keyed door lock
  - Hinged wire gutter access door with 135° door swing
- Factory-installed power cables
- IPC2 construction can be close-coupled to QED switchboards, Integrated Power Centers (IPC), and Modular Panelboard Systems (MPS)

**Panelboards**
- NQ 600 A MLO max. and 600 A Main Breaker max.
- NF 600 A MLO and 600 A Main Breaker max.
- NF Powerlink 600 A MLO max. and 600 A Main Breaker max.
- I-Line™ 1200 A MLO max. and 1200 A Main Breaker max.
- Panelboard options
  - TVSS units
  - Subfeed circuit breaker
  - Subfeed lugs
  - Thru-feed lugs
  - Handle lockoffs
  - Key lock for panelboard access doors
  - Non-linear panelboards (200% neutral)
  - Branch circuits wired to terminal blocks (60 A max)

**Enclosure Options**
- NEMA 1 indoor
- NEMA 1 with driphood
- NEMA 3R rainproof

**Equipment Space**
- Lighting contactors
- Building management systems
- Space for third-party equipment

**Lighting Contactors**
- Electrically or mechanically held
- 8903 Type L 20 A/30 A 2-12 pole
- 8903 Type S 30 A-200 A 2-4 pole
- Contactor options
  - Unwired — mounted in cell only
  - Line side wired — line side wired to branch breaker
  - Fully wired — line side wired to branch breaker; load side wired to terminal blocks

**PowerLogic Monitoring/Metering**
- Energy Meters — EM4800, BCM, BCPM
- Power meters — PM820, PM850, PM870
- Circuit Monitors — CM4000T
- System Display Meters — SDMs, MDMs

**Transformers**
- Energy Efficient
  - 15 kVA-300 kVA three phase 150 ºC Rise
  - 15 kVA-167 kVA single phase 150 ºC Rise
- K-4 and K13 non-linear
  - 15 kVA-225 kVA three phase 150 ºC Rise
- Copper windings are available
- 80 ºC and 115 ºC rise transformers available

**Automatic Transfer Switch**
- 600 A 3P maximum
- Open transition
- Options include:
  - Programmable engine exerciser
  - Two utility and two generator auxiliary contacts
  - Strip heater with thermostat
  - Connectivity module (Ethernet TCP/IP network)

**Individually-Mounted Circuit Breaker**
- 15 A-1200 A two-pole and three-pole circuit breaker
IPC2 stands for **Reliability**

While integrating distribution equipment in a common enclosure is a simple concept, it requires extensive thermal, short circuit current, and seismic testing to assure applicable codes and standards are met. You can be confident that Square D integrated products have met all applicable codes and standards, including:

- cUL Listed
- UL 891 — Deadfront Switchboards
- UL 508A — Industrial Enclosures
- C22.2 - No. 244 — CSA Switchboards
- NFPA 70NEC — 2005 Edition
- ICC ES AC 156 — Seismic Acceptance Criteria

Square D Integrated Equipment has a long history of providing integrated electrical distribution and control solutions. More than 30 years ago the company began manufacturing the W.A. Brown & Son Brown Box, the early version of the current IPC solution. In 2001, the W.A. Brown Electrical Controls Division became Powerbox Solutions LLC, a wholly owned subsidiary of Schneider Electric.™ In early 2005, it became a fully integrated member of the Schneider Electric family.
IPC2 stands for The Right Solution for Your Application

With over 50 different IPC2 section configurations, including stacked transformers and corner units, we have a solution to fit your needs! Refer to the IPC2 Application Guide for detailed descriptions as well as available interiors for each section.

Today, Square D Integrated Equipment offers the industry’s most powerful combination of innovative products, electrical control expertise, technical service, and support. Why look to anyone else for your electrical equipment needs when you can rely on Square D, the most trusted name in the industry for quality, service, and value.

With an IPC2 solution, let us become your single point of contact for your entire electrical system requirements.

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