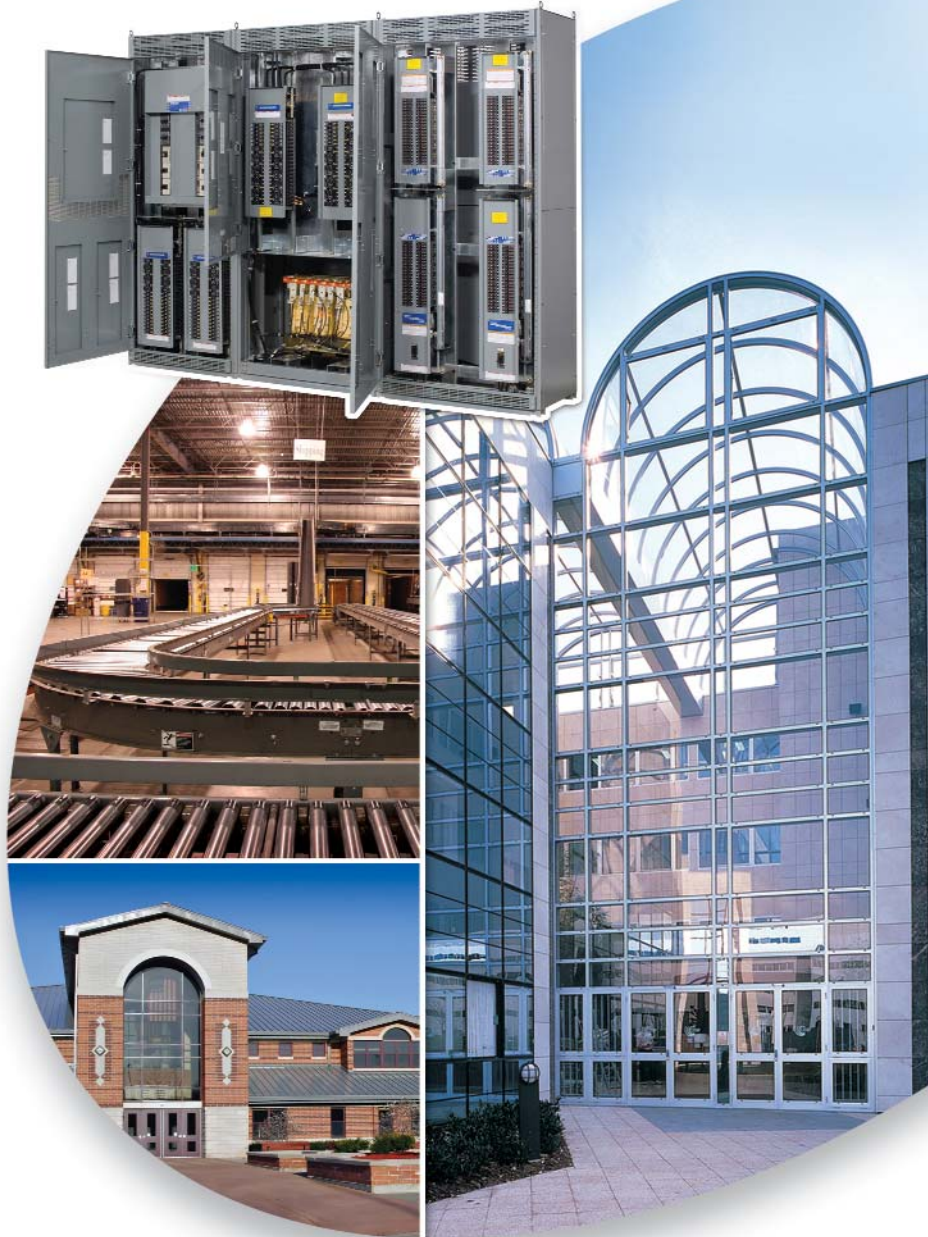


## *Integrated Power Center 2 (IPC2™)*

Space saving designs that save time  
and reduce costs



## What does **IPC2** stand for?



*The newest addition to the Square D® IPaCS family of integrated solutions, the Integrated Power Center 2 (IPC2) product line, includes front- and rear-aligned equipment available in multiple enclosure options, including NEMA 1, NEMA 1 with driphood and NEMA 3R.*

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



Less square footage is being allocated for consulting engineers to work with today in the electrical rooms. At the same time, there is also more pressure than ever before 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 we are stacking components, we are able to reduce the amount of floor and wall space required for the installation.

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 located in close proximity.



*The most  
trusted  
name in the  
industry for  
quality, service  
and value*



# It stands for **Savings**

## **Minimizes space requirements**

Since electrical panels and transformers are stacked in a modular line-up, valuable floor and wall space are saved

## **Lowens installation costs**

Minimize contractor labor risks due to reduced on-site installation requirements because panels, transformers and lighting controls are factory-assembled and pre-wired.

## **Reduces material handling**

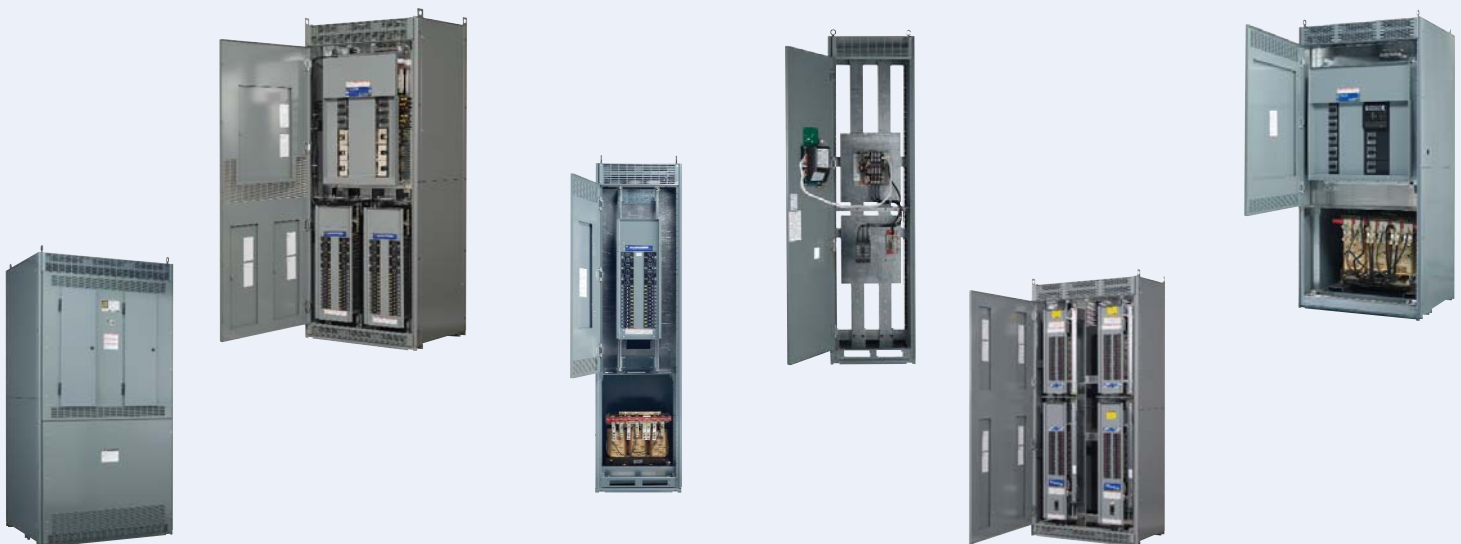
There are fewer items to receive and inventory on-site since components are factory-installed and pre-wired into the integrated equipment.

## **Saves design time**

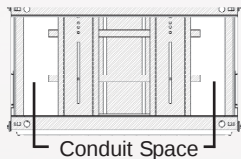
Customer-specific designs can be standardized for multiple locations which optimizes installation performance.

## **Shortens cycle times**

Pre-assembled construction means less time required on-site to install, reducing the overall construction cycle.



# It stands for **Innovative Design**



Sections can be fed  
from the top or bottom

The first member of the IPC2 family, the Transformer Combo, is ideally suited for projects having 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 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.

## **Reduces floor and wall space requirements**

Installing a Transformer Combo reduces the required floor and wall space by 50% 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

## **Available configurations**

- Interior options available based upon customer requirements
  - See IPC2 Application Guide (2230DB0601R4/07) for complete listing of available interiors
- Multiple standard merchandise configurations available

## **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



# It stands for **Flexibility**

For more complex designs, the newest members of the IPC2 family allow 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 and power conditioning products, surge suppression and building management systems.

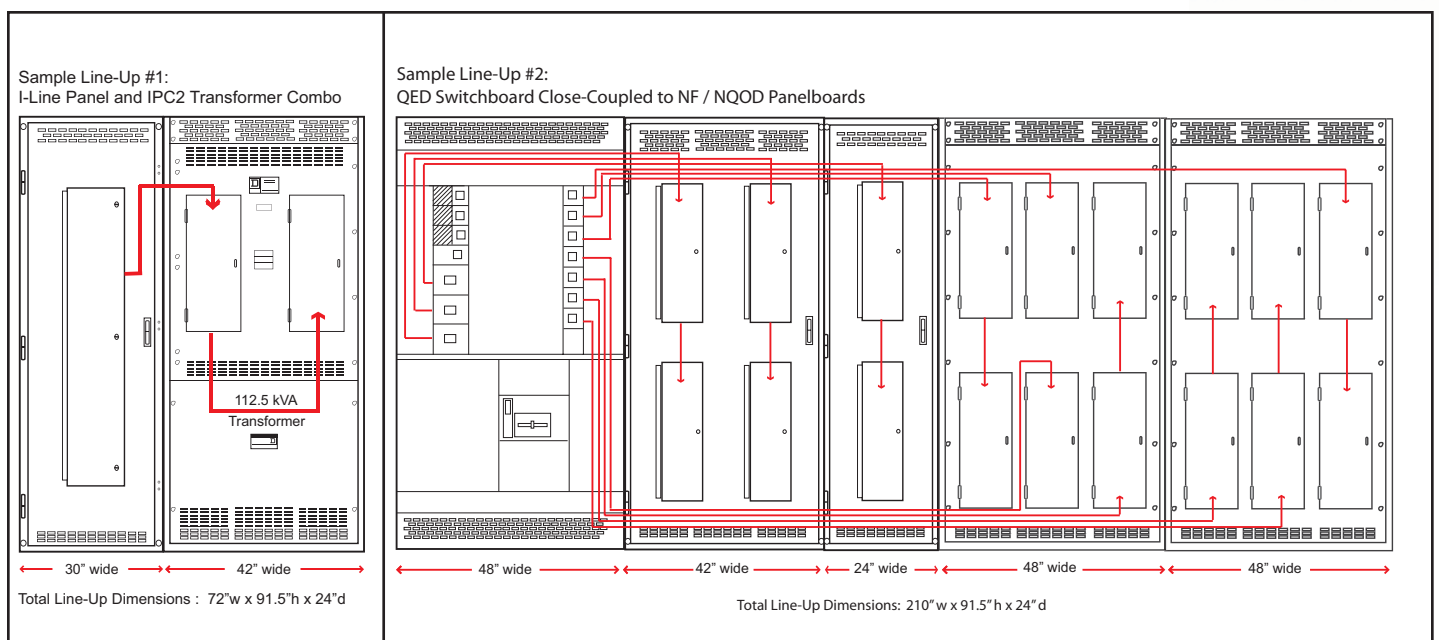
## Key features of the IPC2 design

- “Panels over Panels” 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 2230DB0601R4/07) for available interior options.

*\*Based upon standard shipping splits, not to exceed 96 inches*



# It stands for **Quality Construction**

## Standard Construction

- UL 891 – deadfront switchboard
- Enclosure dimensions
  - All sections are 91.5" high
  - Standard widths: 24", 30", 36", 42", 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, Modular Panelboard Systems (MPS) and Integrated Power Centers (IPC)

## 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 20A/30A 2 to 12 pole
- 8903 Type S 30A-200A 2 to 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

## Individually-Mounted Circuit Breaker

- 15A-800A 2 pole and 3 pole circuit breaker

## Panelboards

- NQOD 600A MLO max. and 600A Main Breaker max.
- NF 600A MLO and 600A Main Breaker max.
- NF Powerlink® 600A MLO max. and 600A Main Breaker max.
- I-Line® 1200A MLO max. and 1200A 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)

## Transformers

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

## PowerLogic Monitoring/Metering

- Power meters – PM820, PM850, PM870
- Circuit monitors – CM3250, CM3350, CM4000T, CM4250

## Automatic Transfer Switch

- 400A 3 pole 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)

# It 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:

- cULus 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 IPaCS 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, as a fully integrated member of the Schneider Electric family, our name was changed to Square D Integrated Power and Control Solutions (IPaCS) to better reflect our capabilities and direction.



# It 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 (2230DB0601R4/07) for detailed descriptions as well as available interiors for each section.

Today, IPaCS 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.



**Contact your local Square D office or call Square D IPaCS at 1-800-868-9662.  
Or, visit our web site at [www.us.squared.com/ipacs](http://www.us.squared.com/ipacs).**

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