

Do you need an easy solution to **immediately** boost your facility's **energy efficiency** and productivity?

Are products that blend superior **quality, performance and flexibility** with excellent value difficult to find?

Do you require **the expertise,** support and reach of a global leader with **the responsiveness** of a local supplier?



# Energy efficiency, as simple as VarSet



## Engineered to meet your needs

Whether you run a single site operation, or a globe-spanning enterprise, a fast and easy way to enhance competitiveness is to ensure that your power factor is corrected and your electrical network delivering optimum power.

Choosing advanced VarSet low voltage (LV) APFC panels is a simple and reliable way to do that. Count on VarSet equipments to bring reliable energy efficiency to your electrical infrastructure.

## High quality power = higher productivity

Power factor correction helps lower operating and capital costs and can provide a very quick return on investment:

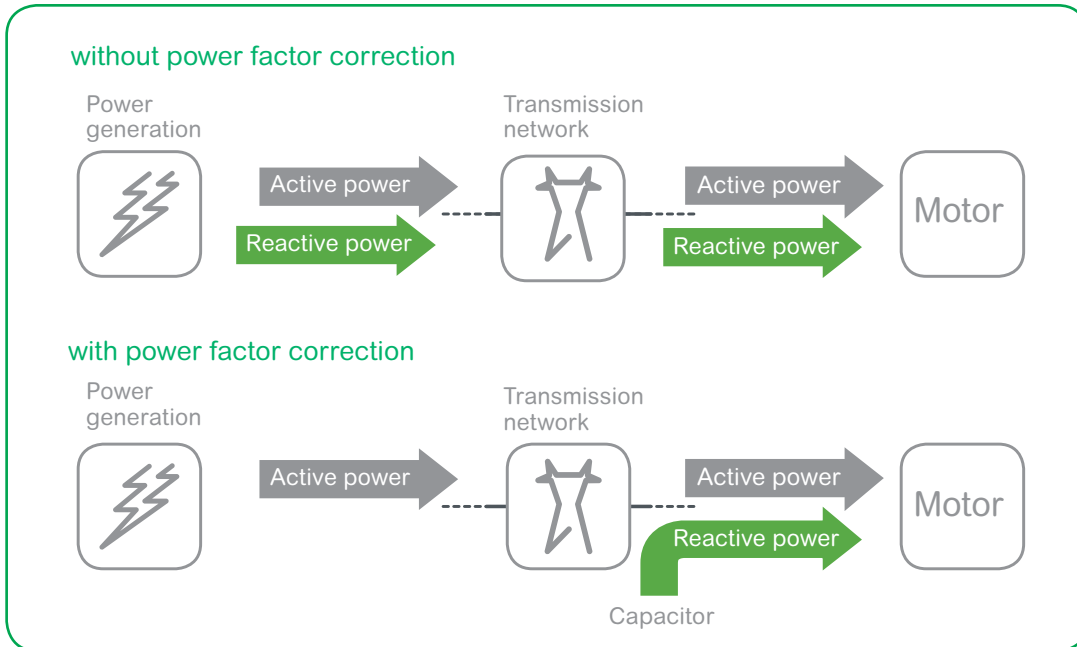
- Reduce capital expenses up to 30%.  
Optimise electrical system capacity, avoid oversizing and limit redundant capacity.
- Reduce reactive energy billing penalties and lower operating expenses up to 10%.  
Boost power factor to lower utility bills and reduce losses in transformers and conductors.
- Reduce energy losses by up to 30%.  
Optimise power consumption, reduce total process energy consumption and reduce CO2 emissions.
- Improve power system and equipment reliability up to 18%.  
Increase power quality to improve business performance and reduce unplanned outages, as well as enhance the reliability and service life of electrical devices, while reducing harmonics stress and potential damage to your electrical network.

Up to  
**30%\***

better energy efficiency and lower electricity cost on your first day with VarSet

\* This performance is given as an indication and may vary depending on the user's installation

# Maximizing energy efficiency just gets easier and more economical with VarSet



## Give your power infrastructure a boost

Compensating for reactive power and harmonic distortion with VarSet APFC panels is one of the easiest ways to quickly maintain your facility’s power factor at an ideal level for maximum power system efficiency and cost reduction.

## Enhanced design creates superior performance

Designed and manufactured by Schneider Electric, using advanced manufacturing methods and premium materials, VarSet are optimised to provide superior, end-to-end operation and value through every stage of its lifecycle.

## Protection, durability and safety you can trust

With decades of power factor correction expertise behind it, VarSet is a complete range of high-quality floor-standing APFC panels. Choose VarSet to make your business more profitable, your power infrastructure more reliable and your electrical environment more safe, VarSet are suitable for new construction or retrofit applications in virtually any commercial, industrial and utility enterprise.

Up to  
**30%\***

energy loss  
reduction

\* This performance is given as an indication and may vary depending on the user’s installation

# Maximizing energy efficiency just gets easier and more economical with VarSet



## Comprehensive products for multiple applications

- Large choice of floor-standing APFC panels from 50 to 500 kvar.
- Extensive range of electrical steps complement to match your loads and processes
- Suitable capacitors for any harmonic level and type of loads

## Quality, reliability and safety

- Pre-engineered power factor correction solutions ensure your installation delivers more for less on time and on budget
- Designed for easy installation
- High quality of Schneider Electric components provide high performance and robustness
- Schneider Electric manufactured capacitor units, breakers, contactors and special enclosures that contribute to performance and safety
- VarSet equipments are fully type tested
- Assembly plants are ISO 9001 certified

Up to  
**10%\***  
lower operating  
expenses

\* This performance is given as an indication and may vary depending on the user's installation

# Engineered for superior performance and long-term value

The entire VarSet range offers a unique combination of abilities to give you more Safety, Reliability & Performance across a broad range of applications. Forward-thinking design and meticulous manufacturing quality means you can count on VarSet to deliver dependable, continuing service

## Safety

- Fully type tested as per IEC 61439-1/2 & IEC 61921
- Enclosure tested for IK 10 (external mechanical impacts) as per IEC 62262
- A suitable overload & short circuit protection for each step as per IEC 61921 (CI 5.3.7)

## Reliability

- Avoidance of Resonance through careful selection of Reactors & capacitors
- Certified for a mean ambient temp of 50°C
- Universal enclosure design as per IEC 62208

## Performance

- APFC relays with Modbus communication for integration with BMS & EMS
- Plug & Play feature with target PF setting from 0.7 Lag to 0.7 Lead
- Real time step kVAr monitoring to enable target PF close to unity
- Dual PF setting for PF improvement on EB as well as DG sets

# Engineered for superior performance and long-term value



**ISO  
9001**

quality certified  
manufacturing

**ISO  
14001**

environmental  
management  
system



**REQUIREMENTS**

- Simple planning of drive and system
- Compact solution
- Individually configurable
- High reliability
- Harmonic reduction

**ADVANTAGES**

- Checked and tested enclosure unit
- Simple installation and start-up
- Customized solution
- User-friendly operation



**Altivar 61 Plus**

- Your applications:
- Fans
  - Pumps
  - Compressors
  - Screw Feeders

- Our solution:
- Catch on fly
  - Low motor noise
  - Power monitoring
  - Best efficiency
  - High power rating

**Altivar 71 Plus**

- Your applications:
- Conveyor belts
  - Mixers
  - Extruders
  - Crane drives

- Our solution:
- Controlled torque
  - High starting torque
  - Dynamic braking
  - Safety functions
  - Quick start up

The enclosed drive solutions, Altivar 61 Plus and Altivar 71 Plus, complete the well known range Altivar 61/71 offering:

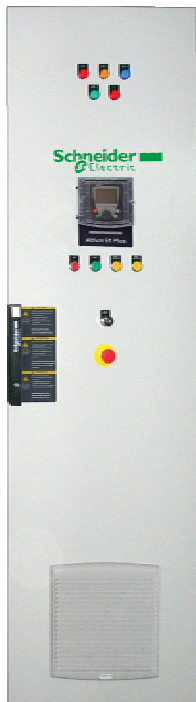
- high level of performance, focusing on high power ratings
- easy configuration,
- ready-to-use and flexible solutions meeting your application needs,
- reliable equipment, designed with optimised cooling system
- coordination of components tested and approved under full load conditions

With these pre-engineered drive solutions you save time when

- quoting,
- ordering,
- installing and
- commissioning

The Altivar 61/71 Plus has been designed to offer a simple and economical "ready to use" solution which keeps the setup time to a minimum. The enclosures are supplied ready-assembled and ready to connect, making wiring fast and easy.

The modular construction makes it possible to adapt the Altivar 61/71 Plus to the individual requests. So customer specific solutions are possible and planning is simplified.



*Operating elements*

### The basic version is equipped with:

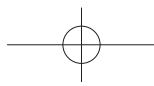
- Enclosure "Spacial SF"
- Frequency inverter Altivar 61/71
- Mains-, Motor- and control terminals
- LCD operating panel
- Operating buttons Start, Stop, Speed +/-
- Key switch for local / remote
- Indications lamps L1/L2/L3 available drives healthy and trip
- Emergency off button
- Control transformer for 230V AC
- Main switch with doorhandle
- Line choke
- Enclosure lighting

### Customize your solution with ready-assembled options:

- Fieldbus options
- Encoder feedback
- Braking unit
- Circuit breaker
- Mains contactor
- Ammeter with switch
- Voltmeter with switch
- Multifunction meter
- Speed indication instrument
- Enclosure heater
- Motor choke
- Enclosure plinth
- Direct on line (DOL) and star/delta bypass
- Pushbutton "inching / jogging"
- Key switch "local / LCS / DCS"
- Indication lamp "Control supply healthy"
- Buffer voltage 24 V DC
- Dual output transducer
- Power socket (SA)
- Further options on request







## Prisma iPM

> An innovative solution based on the experience, expertise and switchgear offerings from the global specialist in energy management.

> Quality production certified ISO 9001.

Using our Prisma iPM solution, you can easily design, implement and operate low voltage electrical distribution and control switchboards that are dependable, because they are optimised, tested and compliant with the IEC 61439 -1 standard.



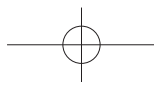
Improve the continuity of service



Ensure the safety of life and property



Control deadlines and costs



# Dedicating ourselves to safe, simple low voltage switchboards

Prisma iPM, a modular and prefabricated solution based on a complete system in kit form, that fully integrates Schneider Electric switchgear offerings.

## Energy is available in the buildings

The Prisma iPM solution perfectly integrates Schneider Electric switchgear and includes our distribution systems and enclosures. These quality components have been designed to operate together with optimised performances: mechanical electrical and communications consistency are ensured. Switchboards designed and manufactured with the Prisma iPM solution have all the qualities needed to ensure energy availability. They are organised by function and by zone, which improves reliability and facilitates design, installation, operation and upgrading. All switchboard architectures are factory tested in line with specifications that go well beyond the IEC 61439-1 standard. The same continuity of service is ensured throughout the switchboard's entire life cycle.



> Example of 28 modules wall mounted switchboard

**1** A cable connection area with complete accessibility.

**2** A zone for functional units\* dedicated to each application in the building (lighting, HVAC, lifts, etc).

**3** A zone for current distribution with innovative busbars. The multistage current distribution brings lightness, ergonomics, and easy front access.

**4** IPXXB front plates for protecting people from any direct access to live parts and circuits opening and closing.

**5** Attractive finish to fit into any facility.

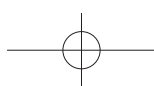
\* A functional unit includes switchgear, mounting plate, front plate and connections.



> Example of floor standing switchboard



> Example of 16 modules wall mounted switchboard



# Acti 9

## Distribution Boards

### Spectacular Design

*Blends seamlessly with interiors*



Unique Rounded Corners | Color - RAL 9003 white | Designer Rotary Knob

### Maximized Wiring Space

*Convenient and Safe wiring*



15% more wiring area | Reduced U-box Collar | Removable Frame, Centre plate & Gland plate

### Adaptable

*Total Flexibility for ease of installation and usage*



Surface and Flush installation | Field fittable key lock provision | Reversible Door

Inspiring the **S.M.A.R.T.** choice!!!

## Robust Architecture

*Perfect blend of Strength & Weight*



High Strength-to-Weight ratio | RoHS and REACH Compliance – ideal solution for GREEN Buildings

## Technically Proven

*Safety Guaranteed*



Designed and Manufactured as per IS 8623 - 1&3 | IP and IK test by ERDA & CPRI | Glow wire tested



# Acti 9

## Distribution Boards

