

Life Is On

**Schneider**  
Electric

# Unlock the potential of true energy efficiency

**PowerLogic** AccuSine™ EVC Plus



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# Discover **PowerLogic** AccuSine EVC Plus



# Today's power quality problems cannot be solved with yesterday's solutions

Automation processes, LED lighting, electronic loads and digital devices - from industrial PCs to robots to medical imaging - are increasingly sensitive to poor power quality. It's challenging for passive, capacitor-based technology to meet the requirements of complex load profiles.

Power quality challenges also have financial and operational impacts. Poor power factor can lead to expensive utility penalties and even fines for non-compliance. It also contributes to equipment breakdown and costly, unreliable production processes.

Active power factor correction instantaneously corrects for lagging and leading power factor and maintains a steady lagging power factor very close to unity - i.e., 99%



# Inspired design, built with AccuSine™ technology

Certified to CE, cULus, HCAI (OSHDP), DNV & ABS, PowerLogic AccuSine EVC Plus is a high-speed, stepless reactive power compensation system that ensures power networks are always efficient, reliable, and healthy.

Built on the award-winning AccuSine EVC Plus active correction platform, PowerLogic AccuSine EVC Plus keeps power factor stable and voltage balanced even with fast-changing loads.

Its superior performance for power factor correction, phase balancing and harmonic mitigation make it perfect for modern electrical networks with multiple digital loads and distributed power sources.

Discover  
PowerLogic AccuSine EVC Plus

Perfect for your  
business

Go further with  
EcoStruxure





# Sustainability, decarbonization and efficiency

Our need for a low-carbon future is undeniable. Acting on such a strategy requires commitment, innovation, and meaningful actions.

With the near real-time reactive power factor correction of the PowerLogic AccuSine EVC Plus, you can increase equipment performance and **reduce your carbon impact by an estimated 100-150 kg CO<sub>2</sub> per kvar over its lifespan**, helping you reduce power losses, save energy and meet your sustainability and emissions targets.



“Carbon emissions are the direct reflection of your waste, your inefficiencies.”

*Jean-Pascal Tricoire, Chairman and CEO, Schneider Electric*



# Industry-leading performance with the AccuSine technology

PowerLogic AccuSine EVC Plus guarantees a perfect power factor in your low voltage electrical network, which also helps improve reliability, as well as increase operational efficiency and uptime.

Designed to operate in challenging conditions, PowerLogic AccuSine EVC Plus provides dynamic leading & lagging PF compensation on unbalanced, ultra-fast changing 3-phase loads with high levels of harmonic pollution. It is also load auto-adaptive, so as load profiles or electrical system attributes change over time, AccuSine EVC Plus lifecycle flexibility allows and adjusts as attributes change.

Multiple power factor setpoint features also provide system-level visibility and control, ensuring that you align with utility tariff structures.



**“Schneider Electric helps customers exceed standard distortion levels through either current or voltage control. Such superior performance and ease of use ensure uptime and reliability.”**

Frost & Sullivan, 2021





# PowerLogic AccuSine EVC+ (208...480 V)

Part number	Rating	Installation	Cable entry	IP rating	KVAR rating 208 V	KVAR rating 380-480 V	Weight Kg	Dimensions (Width × Depth × Height) mm
EVCP075DCH00	75 kVAR 208...480 V	Chassis for OEM cabinets	Bottom	IP00 / UL OPEN	41 kvar	75 kvar	90	440 × 265 × 1260
EVCP075D5W20	75 kVAR 208...480 V	Wall mount		IP20			90	440 × 280 × 1260
EVCP075D5W01	75 kVAR 208...480 V			UL Type 1			110	445 × 280 × 1740
EVCP075D5W31	75 kVAR 208...480 V			IP31			130	540 × 383 × 1685
EVCP075D5W02	75 kVAR 208...480 V			UL Type 2			130	540 × 383 × 1685
EVCP100D5CH00	100 kVAR 208...480 V	Chassis for OEM cabinets	Bottom	IP00 / UL OPEN	55 kvar	100 kvar	90	440 × 265 × 1260
EVCP100D5W20	100 kVAR 208...480 V	Wall mount		IP20			90	440 × 280 × 1260
EVCP100D5W01	100 kVAR 208...480 V			UL Type 1			110	445 × 280 × 1740
EVCP100D5W31	100 kVAR 208...480 V			IP31			130	540 × 383 × 1685
EVCP100D5W02	100 kVAR 208...480 V			UL Type 2			130	540 × 383 × 1685
EVCM100D5CH00	100 kVAR 208...480 V	Chassis for OEM cabinets	Bottom	IP00 / UL OPEN	55 kvar	100 kvar	90	440 × 265 × 1260
EVCM100D5W21	100 kVAR 208...480 V	Wall mount		IP21			90	440 × 280 × 1260



# Designed for the customer needs

## Various enclosure rating

Protection against water and dust ingress

## Touchscreen HMI

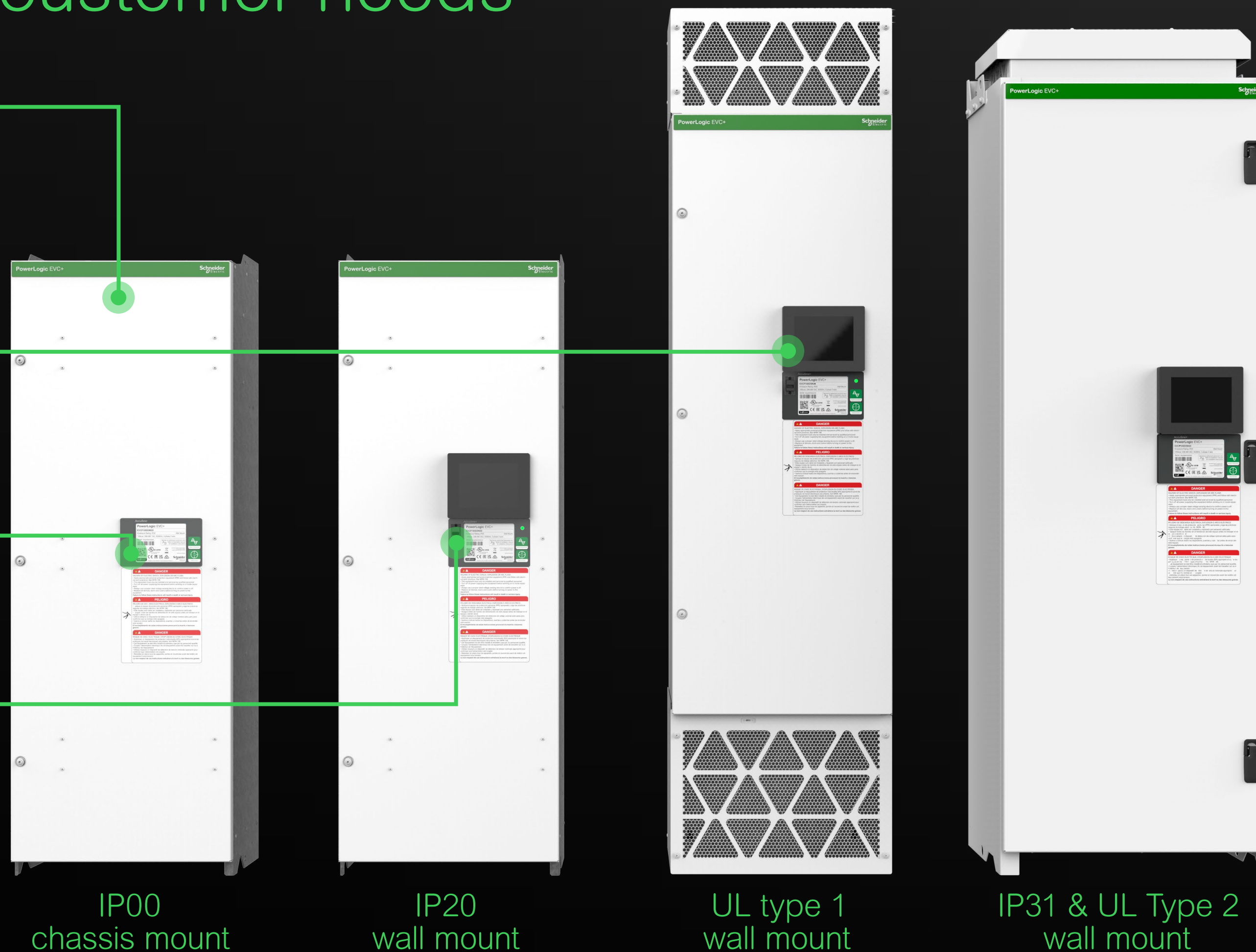
- Field-tested user interface
- Inbuilt waveform capture
- Setpoints configuration
- On-board commissioning wizard

## QR code

Quick access to supporting documentation from the field

## USB communications port

- Firmware upgrades
- Download commissioning report and diagnostic files



## Thermal reliability

- Dynamic cooling for optimised efficiency
- Withstand up to +50°C without derating
- Maximum ambient temperature +53°C

## Reliability and robustness

- Connectivity-ready
- Cybersecure
- Seismically tested to 2.47g
- Built-in EMC filter
- THDv  $\leq$  15% withstand

## Product certifications

- CE & UKCA
- UL & CSA
- DNV & ABS
- HCAI (OSHDP)
- IEC 61439-1 & 2



# Perfect for your business

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# Perfect for your business

In any power system, poor power factor and harmonic pollution leads to equipment malfunction and potential shutdown. It shortens the lifespan of sensitive equipment and can lead to costly utility charges, safety issues, and data loss or corruption. Power factor is also a critical challenge to consider for sustainability goals.

**PowerLogic AccuSine EVC Plus is the answer.** As an IGBT-based solution with infinite resolution and instantaneous reactive power control, PowerLogic AccuSine EVC Plus responds to load changes within  $25\mu\text{s}$  ( $<1/4$  cycle) and controls kvar injection down to 1 kvar.

Industrial

Port

Airport

Rail

Healthcare

Commercial Buildings



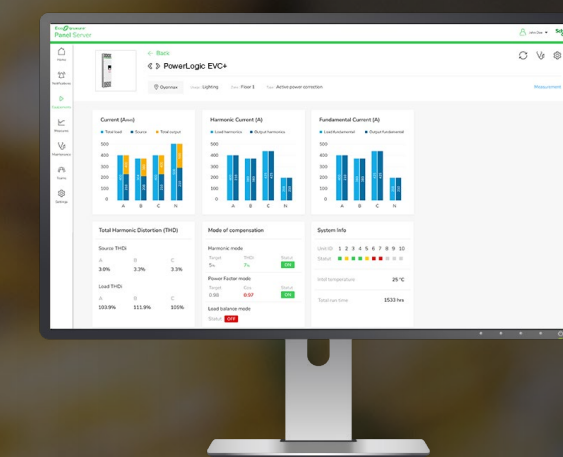
# Fast to deploy, designed to expand as needed

Designed for easy installation, operations, and commissioning, PowerLogic AccuSine EVC Plus uses a proprietary AccuSine paralleling algorithm to enable intelligent functionality. This minimizes disruptions and helps you achieve your goals more efficiently:

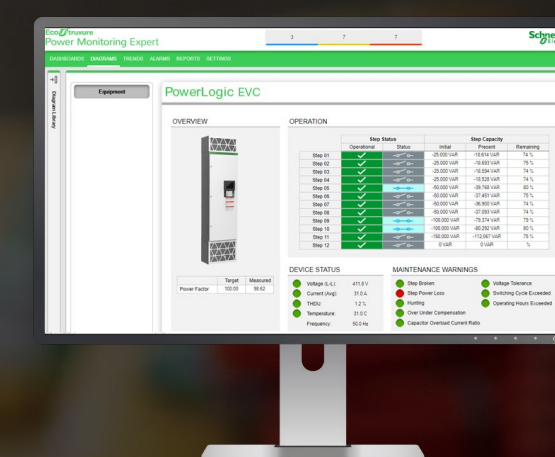
- Automatic CT sizing and polarity detection and correction
- Insusceptible phase rotation
- Automatic parallel ID assignment

For complete redundancy with a distributed architecture, you can configure the entire system from any unit.

Integrate more modules as your power factor requirements evolve thanks to intelligent paralleling for higher power applications.

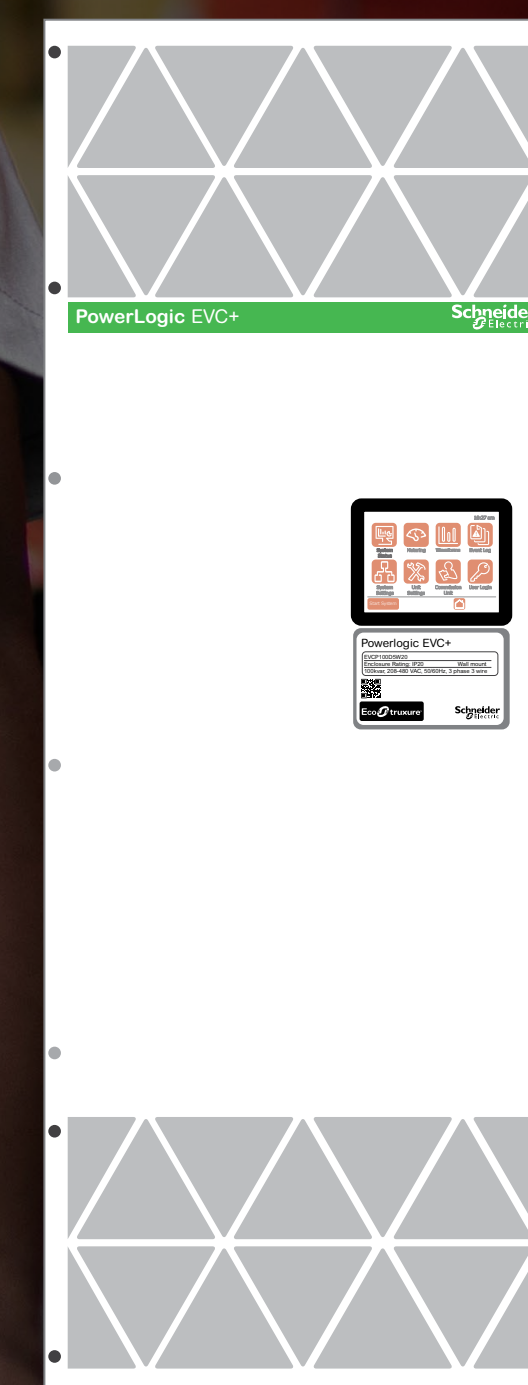


PowerLogic AccuSine EVC Plus  
onboard webpages



Power management  
software

PowerLogic  
Accusine EVC  
Plus



Local Area Network



Communication  
server

— TCP/IP Ethernet  
— RS485 Modbus RTU/Serial

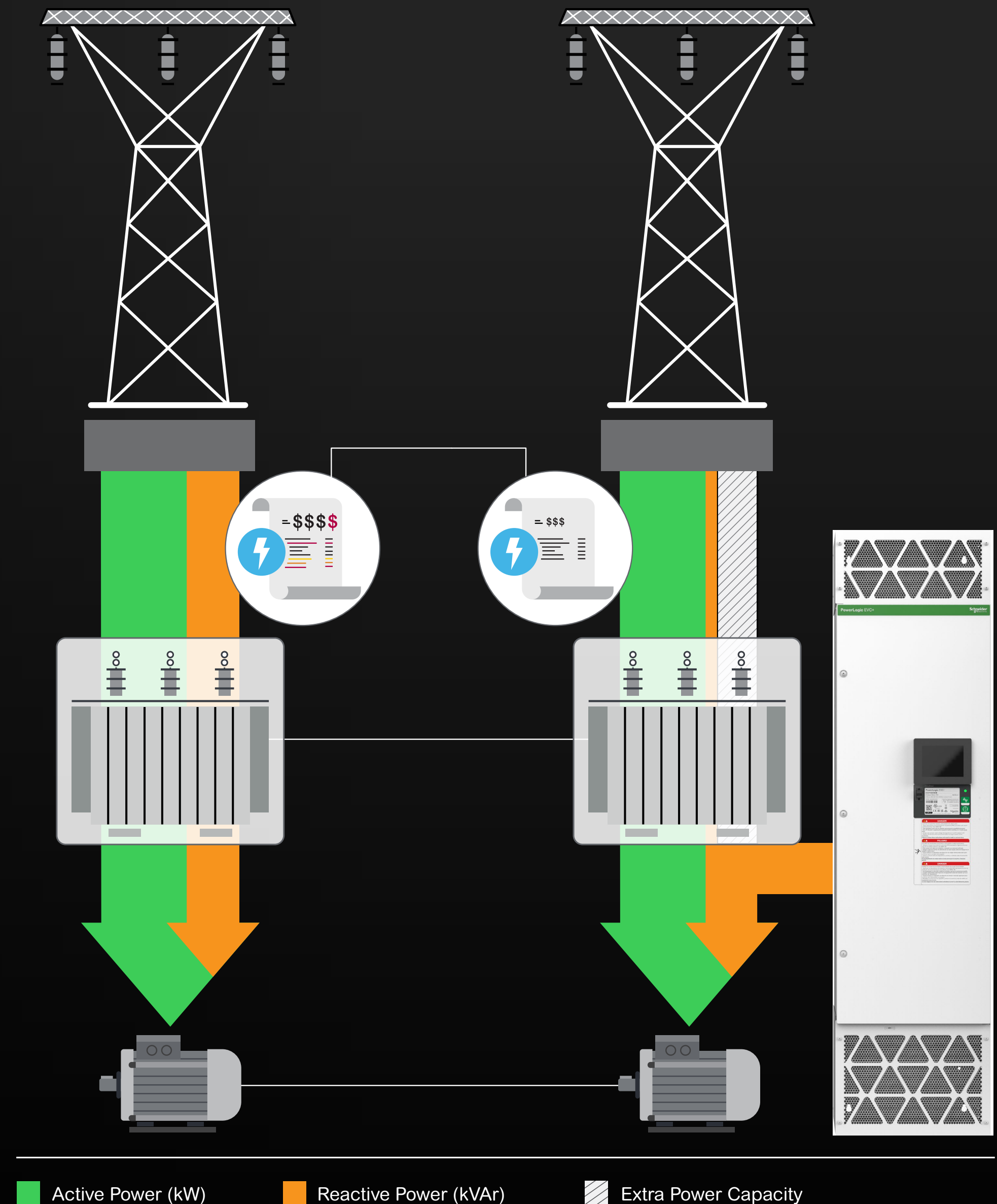




# Improve energy efficiency and increase savings immediately

In electrical systems, reactive energy from inductive loads reduces the efficiency of the network, resulting in poor power factor. The result is less system capacity (kVA) and higher electricity bills. PowerLogic AccuSine EVC Plus eliminates these problems, giving you lower operating and capital costs with a rapid return on investment.

- **Modular** to help ensure uptime and equipment reliability
- **Stepless correction** is always on target, ensuring compliance with utility regulations
- **Reduced OpEx** with lower losses, less maintenance
- **Reduced CapEx** with intelligent paralleling that grows with you as your needs change
- **Simple to commission** and use with onboard wizard and automatic CT calibration





# EcoStruxure™

## Innovation at every level

EcoStruxure is Schneider Electric's IoT-enabled, plug-and-play, open, interoperable architecture and platform that unites power and building management with connected devices, edge control software, and digital services for enhanced productivity and improved resilience.



### Safe

Helps ensure safe delivery and operation of clean, reliable power systems.



### Available

Enhance electrical asset management and avoid electrical downtime.



### Sustainable

Helps improve sustainability and resiliency while reducing costs.



### Cybersecure

Helps ensure resilience to cyber threats that impact business operations.







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