Digitize your power factor correction

PowerLogic™ PFC Capacitor Bank

Every electrical network can benefit from power factor correction. It's the fastest way to save money and improve energy efficiency.

An EcoStruxure™-ready PowerLogic™ PFC capacitor bank solution provides industry-leading diagnostics and IoT connectivity for superior performance monitoring and optimized maintenance.

Energy efficiency

- Lower utility bills by avoiding power factor penalties, lowering demand charges
- Unlock extra system capacity to expand and serve additional loads
- Increase equipment performance and lifespan with improved voltage
- Reduce CO2 emissions with improved power efficiency

Reliability and performance

- With smart controller, embedded environmental sensors and energy gateway server
- Notify when problems are detected or maintenance is needed
- Self-monitoring and ready to connect to any system

Built to the highest standards

- Save time and effort with easy capacitor bank configuration selection and installation
- Tested and certified according to IEC 61439-1 & 2 and IEC 61921
- Engineered for safety and advanced performance
- Robust enclosure system with heavy-duty capacitors and detuned reactors
- Optimized for remote monitoring and preventative maintenance

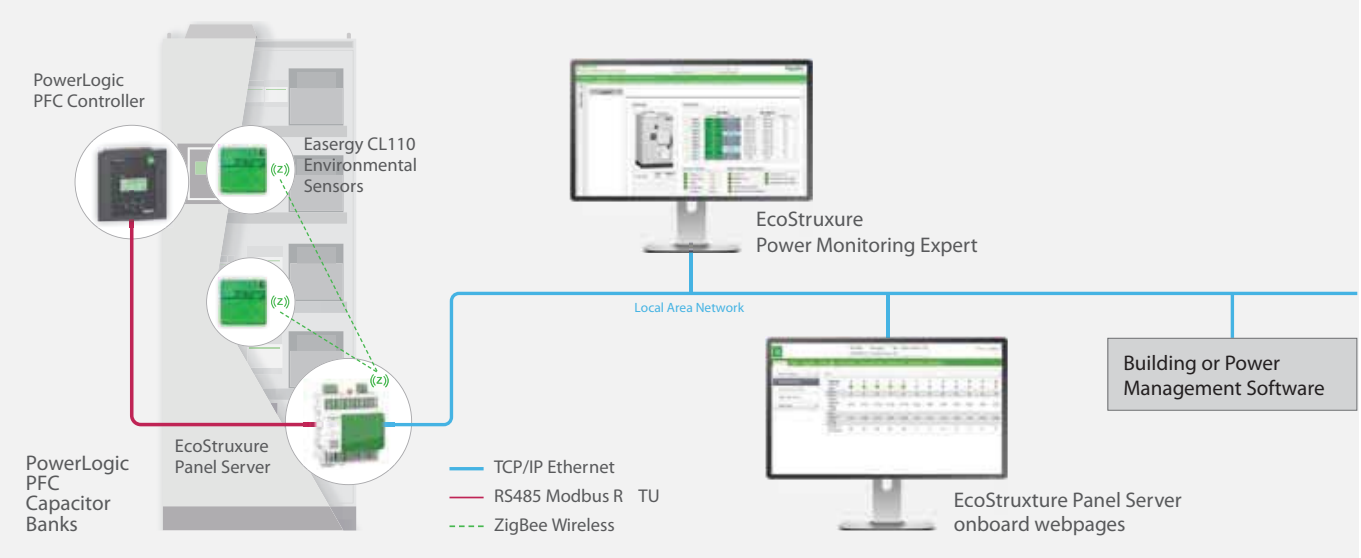
Remote power factor monitoring center

12 months
return on investment*

* Figures based on previous customer performance. Not a guarantee of performance in every case.

se.com/PowerLogicPFC

Gain operational intelligence with connected architectures



PowerLogic™ PFC Controller

- Intelligent capacitor bank controller manages reactive power levels
- Provides real-time measurements for voltage, current, power factor, power, THD and individual harmonics up to 19th harmonic
- Built-in temperature sensor with fan control
- Provides alarms for over/under voltage, low/high current, under/over compensation alarms, faulty step alarm with step number, individual step derating of capacitor indicator, total harmonic distortion alarm at 7% THDv

Smart environmental sensors (Optional Feature)

- Wireless environmental sensor measures surface temperature in contact (Tc) and humidity (RH)
- Two CL110, fixed in predefined locations in the Capacitor Bank, are paired with Zigbee-equipped PAS800 to communicate temperature and humidity values

Efficient gateway server (Optional Feature)

- Collects condition-monitoring data and alarms from PowerLogic™ PFC controller via Modbus RTU communications
- Collects enclosure temperature and humidity data from Easergy CL110 environmental sensors via ZigBee wireless communications
- Provides power information, key operational indicators, and alarms directly via onboard webpages and to remote software systems via Modbus TCP communications
- Fully supported by EcoStruxure Power Monitoring Expert (v9.0+) software

Featurres	Architecture 1 (Edge - basic)	Architecture 2 (Edge - advanced)	Architecture 3 (Apps & analytics)
Web page	Embedded EcoStruxure Panel Server pages	PME web pages	-
Customized web report	-	In PME for VPL and CL110	-
Dashboard and report	Predefined in EcoStruxure Panel Server for VPL and CL110	Predefined in PME	-
Events adn alarms	Predefined in EcoStruxure Panel Server web pages	Predefined dashboards in PME	-
Advanced reporting	-	Predefined dashboards in PME	-
Temperature & safety monitoring	Predefined in EcoStruxure Panel Server web pages	Predefined dashboards in PME	-

Power Factor Correction Equipment

Reliable

Achieves Target set PF
Reduces demand kVA
> Eliminates PF Penalty
Specify what exactly it means
Fuel savings in DG

Safe

> Burst proof capacitors
Detuned Reactors- No Harmonic Amplification
Minimum switching transient

Embedded Intelligence

Auto start, Auto detection, Auto polarity check, Auto c/k
Thermal intelligence
Harmonic intelligence
> Asset management and performance
> PQ Disturbance detection (Optional)

Digitize

Flexible to move to connected world
Web page monitor facility through
Schneider Gateway devices (Optional)
> Seam less integration with PME, PSE

Quality of construction

Compliance to and which Indian Standards
> Stringent quality control measures
> Best Engineering practices
> Best thermal design for heat dissipation

ISO 9001 ISO 14001
ISO 50001

IGBC Green building
Gold medal

IEC

ROHS

REACH

Indian Standards

☑ NORMAL STOCK ITEMS

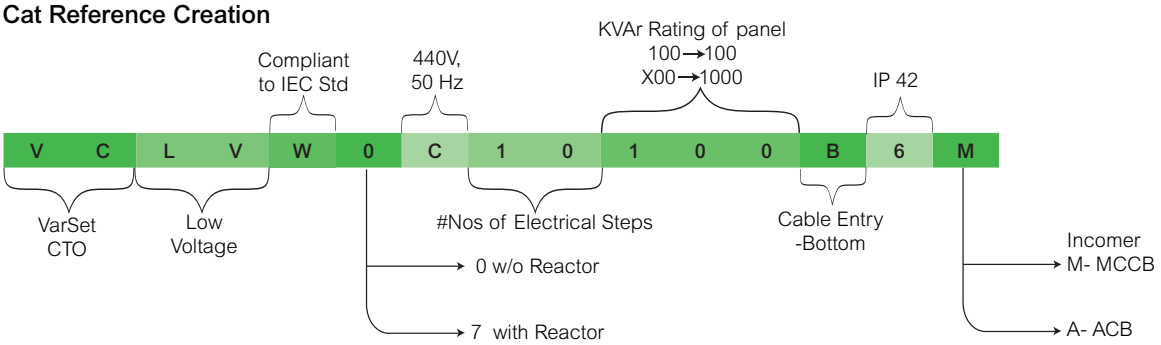
W.E.F. January 17th, 2024

Power Factor Correction Equipment

VarSet LV APFC panels without reactors

Panel Ratings	Step Configuration in kVAr	Cat Reference No.	Dimensions (in mm) W x D x H	Unit MRP [₹]
APFC Ratings (kVAr)				
100	3x10kVAr + 1x20kVAr + 1x50kVAr	VCLVW0C10100B6M	800 x 800 x 2325	On Request
125	2x12.5kVAr + 2x25kVAr + 1x50kVAr	VCLVW0C10125B6M	800 x 800 x 2325	On Request
150	2x12.5kVAr + 1x25kVAr + 2x50kVAr	VCLVW0C12150B6M	800 x 800 x 2325	On Request
200	2x12.5kVAr + 1x25kVAr + 3x50kVAr	VCLVW0C16200B6M	800 x 800 x 2325	On Request
250	2x12.5kVAr + 1x25kVAr + 4x50kVAr	VCLVW0C20250B6M	1200 x 800 x 2325	On Request
300	2x12.5kVAr + 1x25kVAr + 5x50kVAr	VCLVW0C24300B6M	1200 x 800 x 2325	On Request
350	2x12.5kVAr + 1x25kVAr + 6x50kVAr	VCLVW0C28350B6M	1200 x 800 x 2325	On Request
400	2x25kVAr + 3x50kVAr + 2x100kVAr	VCLVW0C16400B6M	1200 x 800 x 2325	On Request
500	2x25kVAr + 3x50kVAr + 3x100kVAr	VCLVW0C20500B6M	1200 x 800 x 2325	On Request
APFC Ratings (kVAr)				
500	2x25kVAr + 3x50kVAr + 3x100kVAr	VCLVW0C20500B6A	1200 x 800 x 2325	On Request
600	2x25kVAr + 3x50kVAr + 4x100kVAr	VCLVW0C24600B6A	1400 x 800 x 2325	On Request
700	2x25kVAr + 3x50kVAr + 5x100kVAr	VCLVW0C28700B6A	1400 x 800 x 2325	On Request
750	2x25kVAr + 4x50kVAr + 5x100kVAr	VCLVW0C30750B6A	1400 x 800 x 2325	On Request
800	2x25kVAr + 3x50kVAr + 6x100kVAr	VCLVW0C32800B6A	2000 x 800 x 2325	On Request
900	2x25kVAr + 3x50kVAr + 7x100kVAr	VCLVW0C36900B6A	2000 x 800 x 2325	On Request
1000	2x25kVAr + 1x50kVAr + 9x100kVAr	VCLVW0C40X00B6A	2000 x 800 x 2325	On Request

Cat Reference Creation



Product offer:

VarSet LV APFC panels with 7% / without Reactors

Ratings = 100kVAr to 1000kVAr
Capacitor = MPP HD Can 440/480V, with 3ph simultaneous PSD

General Features:

System voltage = 440V
Frequency = 50Hz
Phase = 3
Design = Modular
IP = IP42
Switching = Random

Incomer:

Upto 350kVAr = MCCB, 36kA
From 350 to 500kVAr = MCCB, 50kA
From 500 to 1000kVAr = ACB, 65kA
Step protection = MCCBs, 36kA

Switching:

Capacitor duty Contactor - without Reactor design

Power Contactors - with Reactor design

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Power Factor Correction Equipment

Capacitor: LV Shunt MPP FILM

> **Capacitor: LV MPP film**
- IEC 60831-1,2 Compliant
- Unique Pressure sensitive disconnector
- Class D (+55degC)

Branch Protection: MCCB

> **Branch Protection: MCCB**
- Reduces thermal stresses on the electrical distribution network
- Unique electrical fault trip indication (SDE)

Detuned Reactor: Cu Wound

> **Detuned Reactor: Cu Wound**
- Compliant to IEC 60076-6
- Class H insulation (180 °C)
- Inbuilt thermal protection

Incomer: ACB/MCCB

> **Incomer: ACB/MCCB**
- No derating upto 55°C as per IEC-60947 Part 1 & 2
- Fastest Breaking time <25ms

APFC Controller: Varlogic RT/ VarPlus Logic VPL

> **APFC Controller: Varlogic RT/ VarPlus Logic VPL**
- Most Intelligent PFC relay in market with 6, 8, 12 steps
- Ready to communicate with dedicated RS485 port

VarSet LV APFC panels with 7% reactors

Panel Ratings	Step Configuration in kVAr	Cat Reference No.	Dimensions (in mm)W x D x H	Unit MRP [₹]
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100	3x10kVAr + 1x20kVAr + 1x50kVAr	VCLVW7C10100B6M	1200 x 800 x 2325	On Request
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900	2x25kVAr + 3x50kVAr + 7x100kVAr	VCLVW7C36900B6A	3200 x 800 x 2325	On Request
1000	2x25kVAr + 1x50kVAr + 9x100kVAr	VCLVW7C40X00B6A	3200 x 800 x 2325	On Request

Note:
VarSet prices will be On Request

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