

PRECISION POWER CONDITIONER

COMPACT

Enterprise PPC 3:3

Solid-state, DSP and IGBT controlled voltage conditioning — no moving parts, correction in under 20 milliseconds, from 5 to 500 kVA.



5–500 kVA

POWER RANGE

±1%

OUTPUT REGULATION

<20 ms

CORRECTION SPEED

>98%

EFFICIENCY

A solid-state alternative to servo stabilisers — no carbon brushes, no moving parts, and no external surge protection needed, built to withstand industrial environments while protecting delicate electronic loads.

Why Solid-State Wins Over Servo

A servo stabiliser corrects voltage with a motor, carbon brush, and moving contact — parts that wear, spark, and take 2–3 seconds to react. PPC does it electronically, with no moving parts at all.



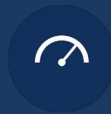
Correction in Under 20 Milliseconds

DSP and IGBT devices correct voltage 100–150x faster than a mechanical servo — fast enough to catch sags and surges before they ever reach the connected load.



Solid-State, No Moving Parts

No motors, carbon brushes, or contacts to wear out, spark, or jam — just DSP-controlled IGBT switching.



Constant Output, Not Just Steady-State

A servo only holds voltage once conditions settle. PPC holds output stable even through sudden fluctuations.

±1% OUTPUT, EVEN UNDER LOAD SWINGS



Handles Regenerative Loads

Stays steady with regenerative loads that unsettle servo stabilisers.



Inbuilt Surge Protection

No external surge or spike protection device needed.



Programmable Display

Input and output voltage, current, and status shown live.



High MTBF

Rugged, solid-state design built for continuous duty.



Overload & Short-Circuit Cutoff

CT-based electronic cutoff protects the unit and connected load.



Wide Input Window

Accepts wide voltage swings without switching to bypass.



Auto & Stabiliser Bypass

Keeps power flowing through maintenance or a fault condition.



Small Footprint

Air-cooled design, even at ratings up to 500 kVA.

Enterprise PPC at a Glance

Electrical and protection figures across the 5–500 kVA platform. Full engineering datasheet available on request.

PLATFORM & PERFORMANCE	
Technology	DSP Controlled, IGBT Based
Power Range	5–500 kVA
Cooling	Air Cooled (up to 500 kVA)
Correction Speed	<20 ms
Output Regulation	±1% of nominal
Waveform Distortion	Nil
SINGLE PHASE (5–30 kVA)	
Input Range	170–270V (140–280V optional)
Output Voltage	220 / 230 / 240V, settable
Efficiency	>99%
3 PHASE (10–300 kVA)	
Input Range	340–470V (300–480V optional)
Output Voltage	380 / 400 / 415V, settable
Efficiency	>98%
PROTECTION	
Overload Cutoff	CT-based, 110% rated current
Short Circuit	Electronic cutoff / MCB / MCCB
Bypass	Stabiliser bypass, auto bypass



The solid-state buck-boost transformer at the heart of PPC's voltage correction.

<20 ms

CORRECTION SPEED

PPC vs. Servo Stabiliser

Where solid-state conditioning outperforms mechanical voltage correction.

FEATURE	COMPACT PPC	SERVO / AVR
Correction Time	<20 milliseconds	2,000–3,000 milliseconds
Output Stability	±1%, even under fluctuation	Steady only at steady-state
Regenerative Loads	Handled comfortably	Becomes unsteady
Moving Parts	None — solid-state	Motor, carbon brush, contacts
Surge Protection	Inbuilt	Requires external device

APPLICATIONS & CREDIBILITY

Where Enterprise PPC Delivers

Wherever precision equipment cannot tolerate a voltage swing — from factory floors to operating theatres.

 CNC & VMC Machine Tools	 Injection Moulding Machines	 PLC & Automation Systems	 Elevators & Lifts
 Medical Imaging (MRI/CT/X-Ray)	 Laboratory & Calibration Equipment	 Printing & Packaging Machinery	 Textile & Weaving Mills
 Central Air Conditioning	 Chemical Processing Plants	 Commercial Buildings & Complexes	 Oil & Gas Dispensing (SCADA)

WHY ENTERPRISES CHOOSE COMPACT



2+ Decades of Trusted Service

More than two decades of experience keeping Indian enterprises powered through unreliable supply.



ISO 9001:2015 Certified

Quality management certified to the ISO 9001:2015 standard across manufacturing and service.

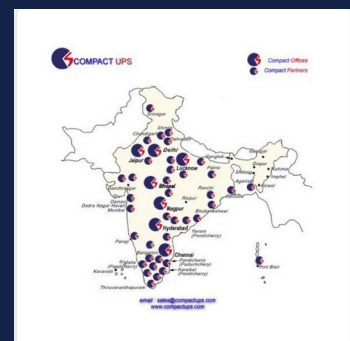


PAN India Support

Sales and service support reaching customers across the country.

A Pan-India service network

Service partners and alumni partners across the country stand behind every COMPACT Enterprise PPC installation, backed by COMPACT's own regional offices.



GET IN TOUCH

Contact COMPACT Systems

Reach out to size and specify the right Enterprise PPC configuration for your site.



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5–500 kVA
POWER RANGE

±1%
OUTPUT REGULATION

<20 ms
CORRECTION SPEED

>98%
EFFICIENCY

Interested in Enterprise PPC Power Conditioning?

Talk to COMPACT Systems — our team can help size the right configuration for your site.

QR CODE
TO BE ADDED

SCAN TO ENQUIRE