

OIL-COOLED SERVO STABILISERS & RECTIFIER TRANSFORMERS

Servo & rectifier spectrum & selection guide

Oil-cooled servo voltage stabilisers that continuously correct supply swings — protecting CNC, textile, packaging and lab loads. Rectifier transformer options support controlled DC supplies. Industrial continuous duty with motorised buck-boost and tight output regulation.

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1. kVA ratings

Compact servo
Up to 100 kVA

Labs, light CNC and commercial floors — oil-cooled servo correction with compact tank footprint.

Medium servo
100 kVA – 500 kVA

Textile, packaging and mid-plant lines — continuous duty stabilisation with wide input window.

Large servo / rectifier
500 kVA – 2,000 kVA+

Heavy industrial and rectifier duty — multi-phase correction and rectifier transformer options for process DC.

2. Technical specifications by tier

Parameter	Compact (≤100 kVA)	Medium (100–500 kVA)	Large (500–2,000 kVA+)
Primary / secondary	Site LV · stabilised LV out	LV / MV in · regulated LV out	LV / MV · servo or rectifier secondary
Cooling	Oil-cooled (ONAN)	Oil-cooled ONAN / ONAF	Oil-cooled · forced as required
Efficiency	High servo efficiency · low idle loss	Industrial continuous-duty efficiency	Optimised for large continuous loads
Impedance	Servo / project practice	Project %Uk	Custom for rectifier / servo duty
Core	CRGO	Low-loss CRGO	CRGO · rectifier-grade as needed
Windings	Cu / Al · buck-boost arrangement	Cu / Al servo windings	Cu · rectifier / servo as specified
Tap changing	Motorised servo correction	Servo + sensing / control panel	Servo / rectifier control · remote options
Applications	Lab · Light CNC · Commercial	Textile · Packaging · Mid plant	Heavy industry · Process DC
Standards	Industrial servo practice	IS / IEC aligned industrial duty	IS / IEC · process / rectifier practice

3. Why choose a servo / rectifier solution?

Continuous voltage correction
Motorised buck-boost tracks incoming swings in real time so CNC, drives and sensitive lines see a stable output band — not just coarse tap steps.

Oil-cooled industrial duty
Oil cooling supports continuous plant ambient and loading better than many air-cooled consumer AVRs — suited to Indian industrial environments.

Protects process uptime
Stable voltage reduces nuisance trips, scrap and drive faults on textile, packaging, paper and automation lines.

Rectifier transformer options
Where controlled DC is needed, rectifier-duty magnetics and connections can be engineered alongside or instead of pure servo stabilisation.

4. Applications

CNC & automation
Machine tools and drive panels needing tight LV regulation against feeder and grid swing.

Textile & packaging
Continuous process lines where voltage dips and swells hurt quality and uptime.

Labs & process DC
Test labs and rectifier-fed process loads — servo correction or rectifier transformers as specified.

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