

Experience the Power⁵ Advantage



KRYKARD[®]

3 Phase – Air Cooled Servo Controlled Voltage Stabiliser AU / AR / AL Series

The KRYKARD Servo Stabiliser from Alacrity Electronics Ltd. has been setting the standard in the industry for product design and quality since 1986. More than 50,000 satisfied customers and over 200,000 KRYKARD Servo Stabiliser installations stand testimony to Alacrity's commitment to customer satisfaction. With expertise in Power Conditioning & Energy Management developed over 20 years, Alacrity Electronics continues to provide innovative solutions to your power conditioning needs.

Power⁵ Advantage

KRYKARD 3-phase air cooled Servo Stabilisers offer the unique Power⁵ Advantage that enhances the quality of user experience & enables realization of true value from our products. The KRYKARD Power⁵ Advantage guarantees you:

- Performance
- Protection
- Payback
- Productivity
- Peace of Mind

Power¹ - Performance

Every KRYKARD Servo Stabiliser is designed and built tough to eliminate breakdowns while providing safe and stable voltage to your critical equipment.

Designed tough

- Designed for continuous duty full load operation
- Appropriately rated components for low component stress, low fatigue failure
- Designed for high efficiency

Built tough

- Accurate voltage control through rugged AC stepper motor with low wear & tear.
- Motor controlled through triacs for fast correction
- IC based electronics for accurate controls and reliability
- Independent Voltage control and Protection circuits.
- High efficiency patented Aluminium foil wound transformer (AFT)
- Good quality components of proven reliability offer excellent service life.

Power² - Protection

KRYKARD Stabilisers protect your critical equipment against harmful conditions prevailing in the Utility supply. Protection features are standard with KRYKARD and not optional - because failure of your equipment due to poor power quality is not an option.

KRYKARD's fully independent Protection Circuit is operational even in the rare event that the Servo control system fails.

- 100% Protection against –
- Under voltage / Over voltage
 - Overload & Short circuit
 - Single Phasing
 - Spikes & Surges

Power³ - Payback

KRYKARD Stabilisers have the lowest life cycle cost in the industry

- High efficiency results in energy savings year after year, paying for itself many times over.
- Low maintenance cost
- Long life span – 15 to 20 years

Power⁴ - Productivity

High Uptime assured

- High reliability through design
- Proactive Preventive Maintenance to eliminate breakdowns
- Convenience of preventive maintenance scheduled to suit User's preference of timing.
- Quick on-site response to break downs - within 6 working hours in service center towns.
- A network of service centers throughout South India and Maharashtra ensures that no installation is more than a day away from us.

Power⁵ - Peace of Mind

- 1 year 'No - Questions- Asked' Guarantee. No fine print.
- Convenient options on Post guarantee Maintenance Plans.

KRYKARD - Complete ownership satisfaction.



Technical Specifications

Nominal Output Voltage	415 V. Internally settable to 380 V / 415 V
Input voltage range @ 415 V output voltage Model AU / AR / AL-1080 Model AU / AR / AL -4080 Model AU / AR / AL -6060	310 V – 480 V 340 V – 480 V 360 V – 460 V
Input Frequency Range	47 Hz – 53 Hz
Type of Stabiliser	Suitable for unbalanced loads and input voltages.
Output Voltage regulation	± 1% of nominal Voltage
Output voltage correction rate	Up to 45 V/sec (L - L)
Servo Motor Drive	A.C. Synchronous Stepper Motor
Efficiency	> 97%
Output Voltage Indication	Digital Voltmeter with phase selector switch to read line voltages
Resolution and accuracy of Digital Voltmeter	1 V; 0.5% ± 1 digit
Output Under / over voltage Cut-off Upper limit Lower limit	5% ± 4 V above nominal 10% ± 4 V below nominal
Electronic overload cut-off	Above 110% of rated current
Short circuit protection	HRC Fuse at input
Spike & Surge suppression	By MOV connected across output terminal
Single Phasing prevention (only in AU Series)	By Voltage sensing method.
Service By-pass	Change over switch provided up to 50 kVA. For higher ratings external change over Switch to be installed by customer.
Fault annunciation panel Operate Caution Cut off	Input ON, Output ON Input High, Input Low Output u / o voltage cutoff, Output overload
Resetting mode	Automatic Restart with time delay of 15 sec (3 mins time delay optional)
Housing	Rack with castor wheels designed to protect against ingress of foreign particles.
Ratings Available	3 kVA to 100 kVA 3-phase

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Model Selection guide:

‘AU’ models for 3 ph or mix of 3 ph & 1 ph loads

‘AR’ models for 1 ph loads distributed over 3 ph (eg: residential / office environment).

‘AL’ models - output set @ 208V LN - for energy conservation in lighting

Convenient maintenance plans

Comprehensive Annual Maintenance Plan (AMC) : ‘No-questions-asked’ all inclusive Service Plan

Service & Preventive Maintenance Plan (SPM): Convenient & economical plan for large installations

Proactive Maintenance Plan (PMP): Scheduled Maintenance to prevent / minimize failures. Fault repair costs extra

On-Call service: For Fault repair. Service charges & spares on actuals

Market Impact

Organisations that value uptime of their critical machines prefer KRYKARD and are regular buyers. Among them are:

Engineering: Brakes India, Greaves Cotton, Hyundai, India Pistons, Roots Multiclean, Royal Enfield, Sundaram Clayton

Telecom: Airtel, Hutch, Idea, Reliance Infocomm, Tata Teleservices

Garment: Best International, DeeCee Exports, Jaya Verma Group, Leela Scottish, White House

Printing: Chennai Microprint, INPAC, NPT Offset, RR Donnelly, Srinivasa Fine Arts

Food Processing: Aavin, Balaji Breweries, Britannia, Coca-cola, Hatsun, Heritage, Hindustan Lever, Lotte India, Mohan Breweries, Pepsi, Ruchi

Leather: Bachi, Farida Shoes, KH Leathers, Srivatsa Industries

Medical / Research Institutions: Apollo Hospitals, Biocon, Bharathidasan Univ, IISc, IIT, CLRI

Product Range & Services

- Servo Controlled Voltage Stabilisers
- True Online UPS Systems
- Isolation Transformers, Auto Transformers
- After-Sales-Support

Our Local Representative



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