

LINE CONDITIONER UNIT

ACME's LINE CONDITIONER UNIT (LCU) provides a viable replacement for standard Servo Stabilizers, immensely benefitting the industry. ACME's Static Line Conditioner Unit helps to manage unbalanced loads and low-power factor loads like motors, sodium lamps, etc.

For smooth operation of sensitive equipment, uninterrupted supply of 230V AC is required. Often AC voltage may have fluctuations, flickering, sags that may effect the reliability of the connected load/equipment. Inductive/capacitive load injects irregular spikes & fluctuations into the AC line that may effect the equipment connected to that phase.

To overcome these problems, ACME offers Line Conditioner Unit for :

- **The fast correction speed of voltage makes sure the effect of flickering & sags at input AC line are controlled.**
- **The design of Line Conditioner Unit is such that it rejects the noise due to inductive /capacitive load to key in AC line.**

Features

Maintenance free

No moving parts like Motors and Carbon Brushes

Speedy correction

400 Volts/micro second v/s 10Volts per second in standard Servo Stabilisers

Clean technology

Air cooled instead of oil cooled - no oil leakage, no messy floors and no need for oil-refilling

Correction of zero crossover of Input Sine Wave to minimise harmonic distortion and inrush current and no output blackout

Minimum system downtime

Fast voltage correction time with TRMS measurement



Streamlining power solutions for sustainable performance



Technical Specifications*

System technology	IGBT based static regulator
Capacity	5KVA-15KVA
Input voltage range	140V to 270VAC (Single phase) (in tower model) 180V to 270VAC (Single phase) (in table model)
Input frequency	47Hz - 52Hz
Output voltage	230 VAC
Output voltage regulation	± 1%
Load power factor	0.6 to Unity
Efficiency	>95%
Correction speed	20 msec
Distortion	<3%
System protections in tower model	<ul style="list-style-type: none"> i) Input HVD/LVD (settable) <ul style="list-style-type: none"> LVD CUTOFF = 140V LVD CUTIN = 150V HVD CUTOFF = 280V HVD CUTIN = 270V ii) Output HVD/LVD (settable) <ul style="list-style-type: none"> LVD CUTOFF = 190V LVD CUTIN = 200V HVD CUTOFF = 260V HVD CUTIN = 250V iii) Circuit breaker at o/p (optional) iv) Delay to start the system to avoid any input fluctuation
Display	LCD display (16x2 characters) to display the following parameters: <ul style="list-style-type: none"> a) I/P Voltage b) O/P Voltage C) O/P Current
Isolation	No isolation between I/P & O/P