

EVERON SVS

The Next Generation

PWM IGBT

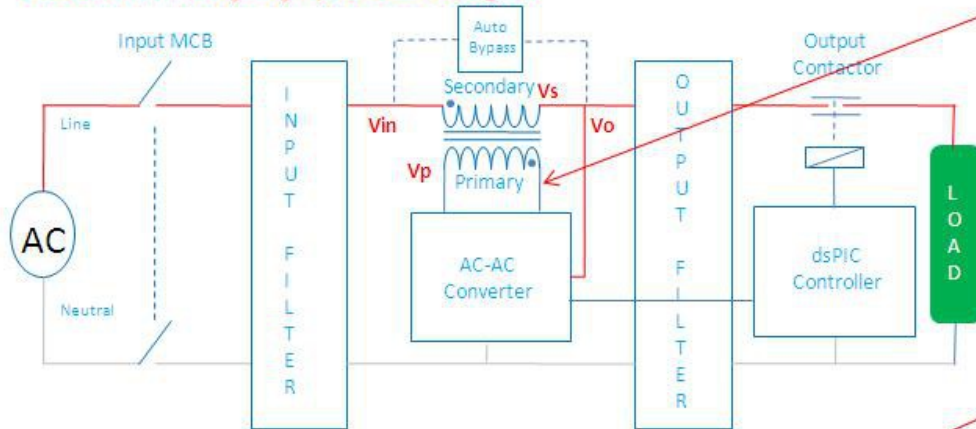
Voltage Stabilizer

Salient Features

- No Moving Parts, Fully static operation
- Precise output voltage stability of $< +/- 1\%$.
- 20.0 KHz High Frequency chopping
- Sleek & Compact
- 10 Millisecond Response time
- High Surge Delivering Capacity
- Overload and Short circuit Protected
- Under / Over Voltage Protected
- Suitable for all kinds of Industrial / Domestic Loads
- No waveform Distortion

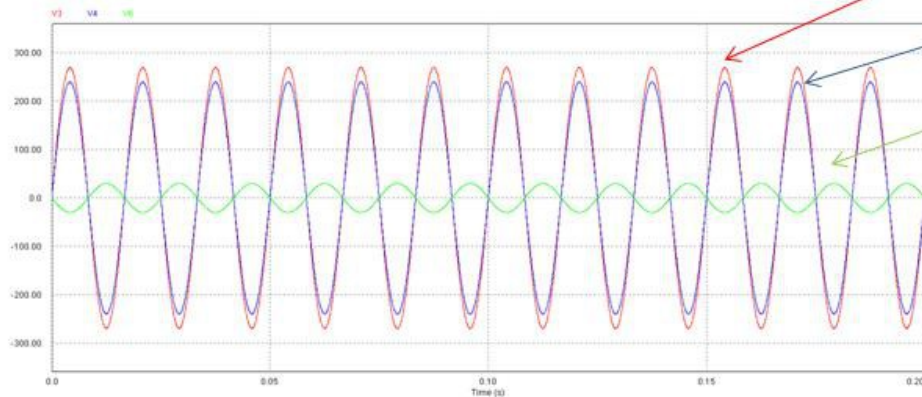
How it Works

Please find following single phase block diagram



V_o = desired Output voltage
 V_{in} = Input voltage
 V_p = Primary voltage generated by AC-AC Converter
 V_s = Secondary Voltage
 $V_o = V_p + / - V_s$
 $V_s = D * V_p * N$
 N = Turn ratio
 D = Duty Cycle

Input Voltage = 270VAC



Output Voltage = 240VAC ($V_o = 270V - 30V$)

Secondary voltage = - 30VAC

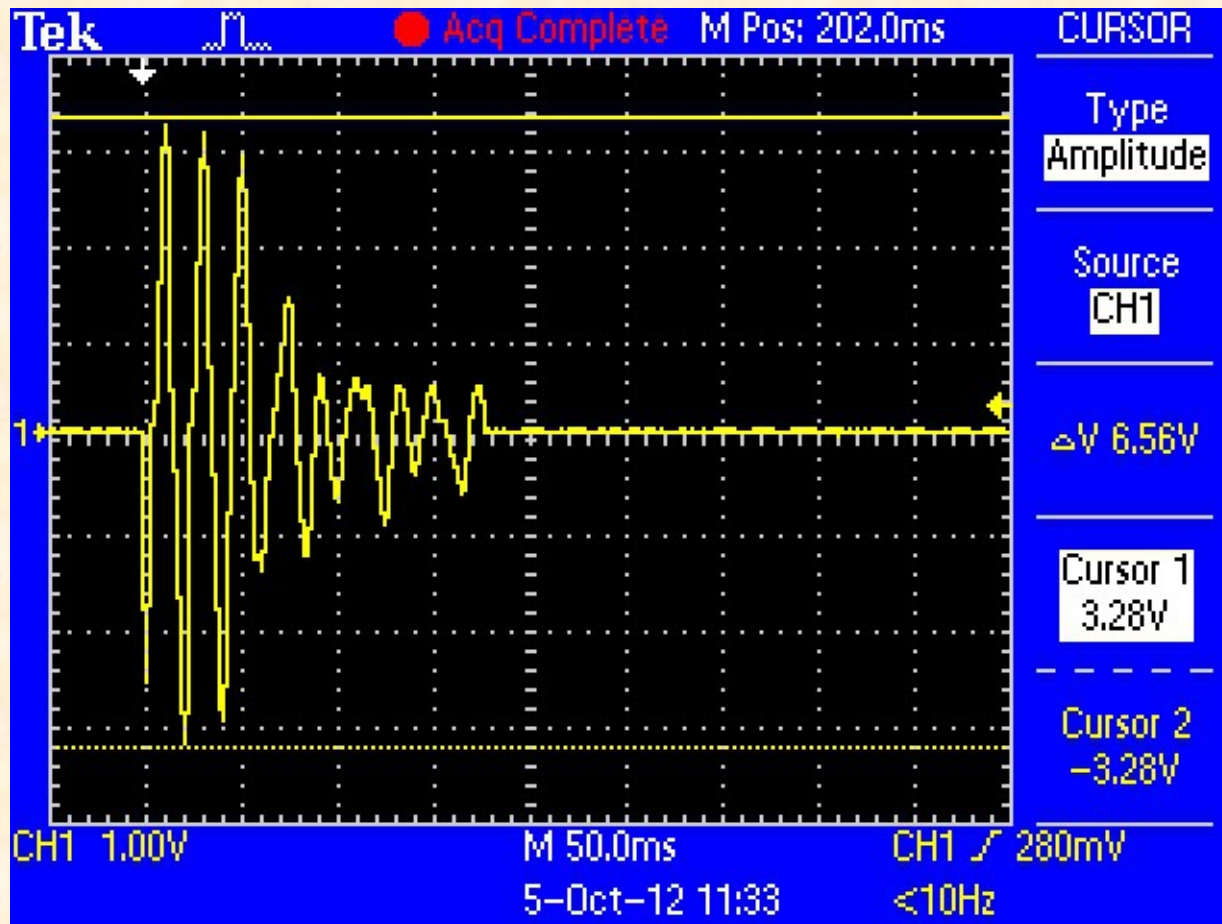
Comparison Chart

FEATURE	SERVO STABILIZER	STATIC STABILIZER	REMARKS
Control Topology	Analog/TTL	Microcontroller Based	Advanced Technology
Reliability Vs. Wear / Tear	Low	High	SVS has no moving parts, No wear/tear.
Response time	20-30 V/ second	Better than 1000 V/Second	Guaranteed instantaneous correction
Efficiency	95 %	97 %	Higher Electrical Efficiency
Size	Bulkier and unfit for indoor use is often oil filled	Compact and uses no oil cooling.	Suitable for indoor use occupies minimum floor space
Maintenance	Higher	Requires no maintenance	SVS is maintenance free
Protections	Optional at extra cost.	Under / Over Voltage, Overload and Short Circuit	Completely Safe operation
Wear & Tear	Wear and Tear due to electromechanical operation	No Wear and Tear.	Advantage SVS

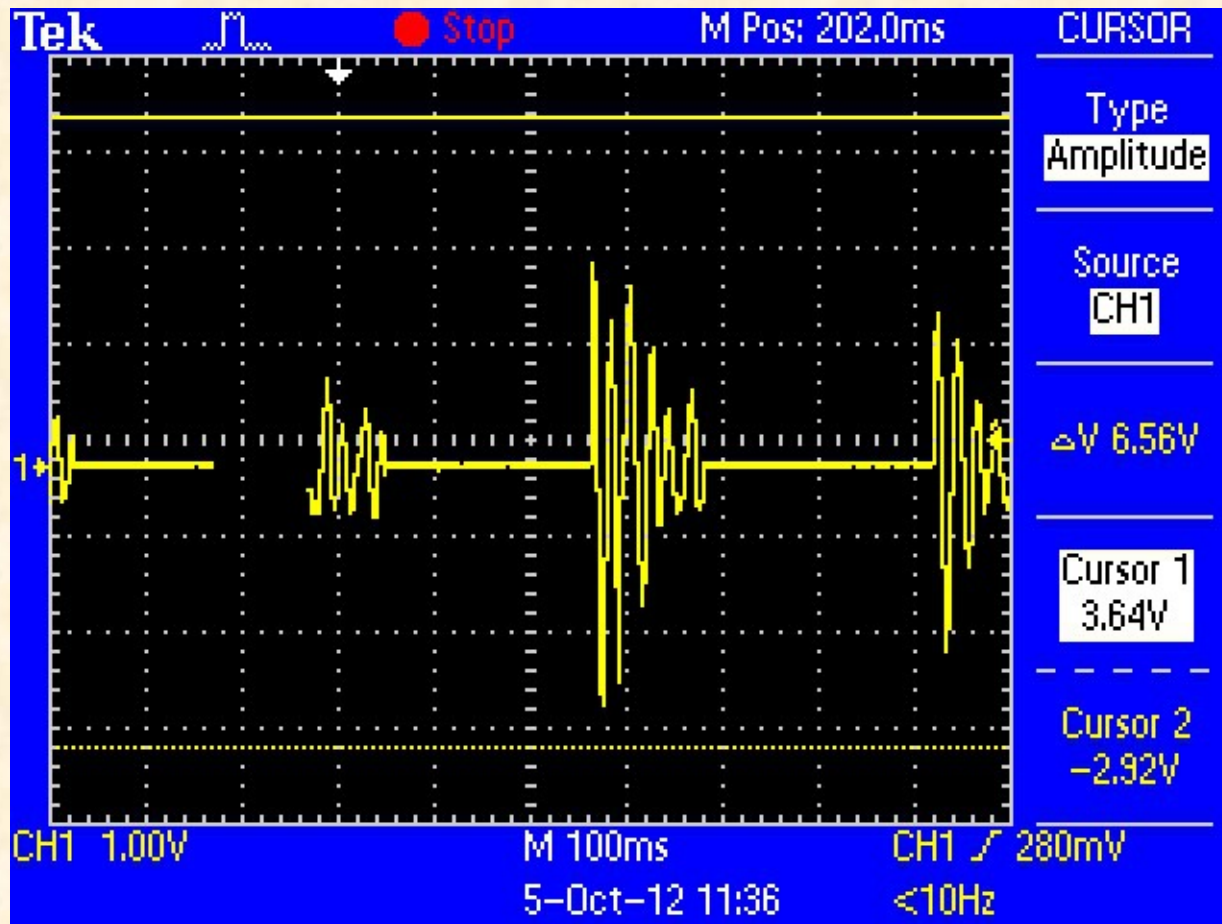
Specifications

- Power Capacities – 2.0 KVA to 20.0 KVA (1 Phase)
- 6.0 KVA to 60.0 KVA (3 Phase)
- Input Voltage Range – 160–290 V/280 – 500 V (1 ϕ /3 ϕ)
- Output Voltage – 220 / 230 V +/- 1% (L-N)
- Configuration – Star Connected
- Response Time – 10 milli-second
- Topology – High Frequency IGBT PWM
- Protections – Under/Over Voltage, Overload, Shortcircuit.
- Efficiency – 97% at rated load.
- Cooling – Forced Air cooling.

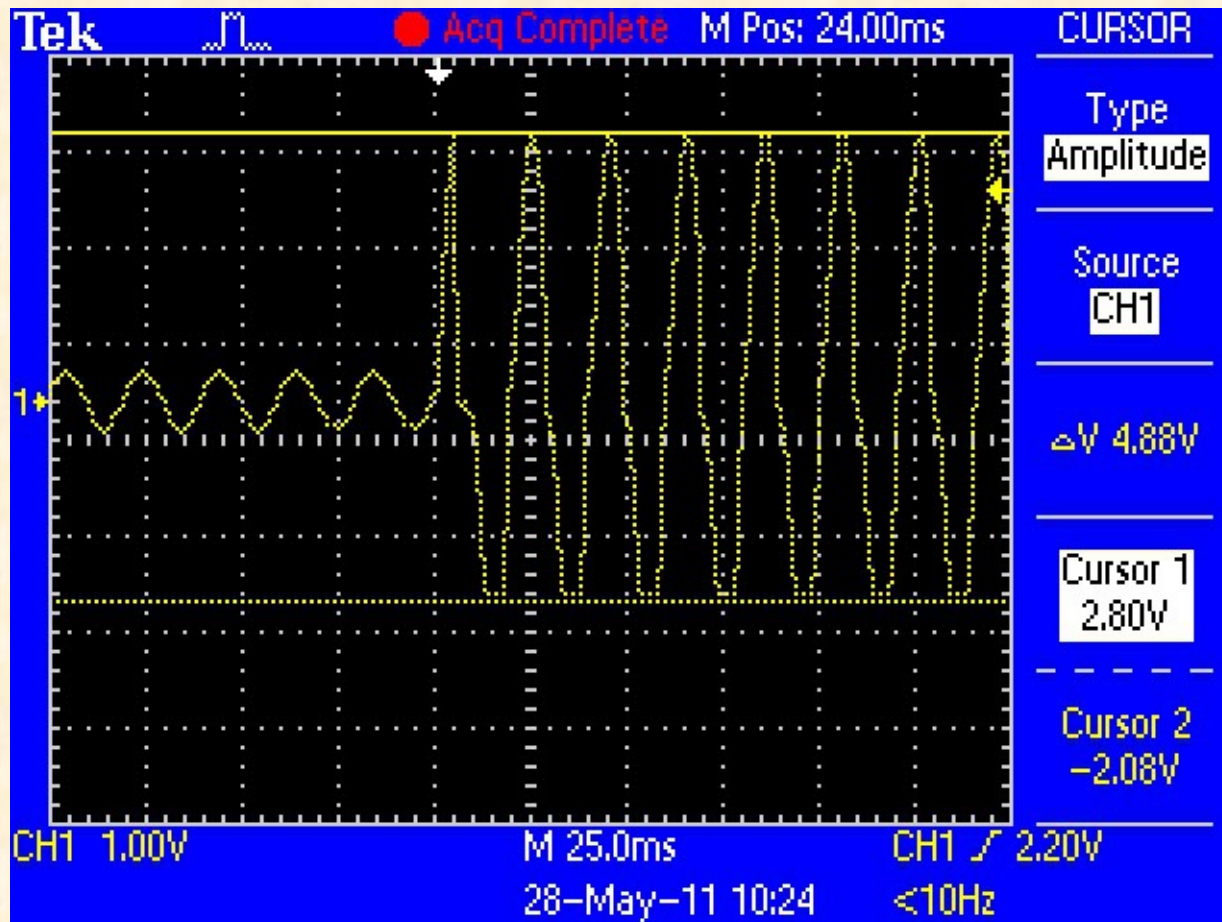
High Inrush Delivering Capacity



Switching On/Off the Motor



Continuous Inrush Current



Applications:

- All Kinds of Sensitive loads
- Computers and peripherals
- Motors / Compressors
- Audio / video Equipment
- Decorative Lighting Loads
- CNC Machines
- Suitable for Telecom BTS Towers
- Ideal for holds for ultra modern appliances.
- Data Centers and BPO operations.

Availability

- Single Phase and Three Phase configurations
- 1.0 KVA to 60.0 KVA, Single phase/ three Phase.
- Input voltage range 160 – 290 v (Standard Models)
- Sleek and compact designs.
- 15.0 KVA three Phase units fits in 200 mm x 500 mm
- No use of oil and thus suitable for indoor use
- Completely safe.

Thank You!

For More details contact us at

EVERON ENERGY SYSTEMS PVT. LTD.

C74, SECOND FLOOR, SHARDA PURI, RING ROAD,
NEW DELHI – 110015

E-mail – everon@vsnl.net

Website – www.everonenergy.com

Phone – 011-2517 3127, 65694431, 09311589802