

## Comparison between Static Voltage Stabilisers (SVS) & conventional Stabilizers (SCVS)

| <b>Technology specifications</b>                       | Static Voltage stabilizers                                | Servo voltage Stabilizers       | Tap changing Voltage Stabilizers            |
|--|---|---------------------------------|---|
| <b>Technology</b>                                      | IGBT Inverter based DSP controlled                        | Electro mechanical variac based | Auto transformer with SCR based tap control |
| <b>Correction speed</b>                                | 2000V/sec   | Typical 35V/sec                 | Slow  |
| <b>Correction time</b>                                 | Less than 10 msec   | 50ms - 5Sec                     | 200ms-1Sec                                  |
| <b>Auto bypass</b>                                     | Yes   | No                              | No  |
| <b>Voltage Stability</b>                               | 1%  | 10%                             | 2%  |
| <b>Cycle by cycle Voltage regulation</b>               | Yes   | No                              | No  |
| <b>System protections</b>                              | - Short circuit<br>- Over current<br>- Over/under voltage | None                            | None  |
| <b>Overload capability</b>                             | 125% for 10 min<br>150% for 1 min                         | No                              | No  |
| <b>Load protection capabilities</b>                    | Excellent   | None                            | None  |
| <b>Interrupts power path at the time of regulation</b> | No  | No                              | Yes   |
| <b>Power cycling transients</b>                        | No  | Yes                             | Yes   |

### LIVELINE ELECTRONICS

(An ISO 9000 & 14000 certified company)

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#### PRODUCTS

UPS Systems, Chargers, VRLA Batteries, Industrial converters/Converters, Servo Stabilizers, Power Quality Surveys, Energy Saving Systems

|   |  |                         |                        |
|---|--|-------------------------|------------------------|
| <b>Dynamic load handling capability</b>                           | Yes – suitable for all kind of loads         | No                      | No                     |
| <b>Regenerative load handling capability</b>                      | Yes  | No                      | No                     |
| <b>Soft start features</b>  | Yes  | No                      | No                     |
| <b>Individual phase compensation</b>                              | Yes  | No                      | No                     |
| <b>Communications for remote monitoring or SCADA compatibilty</b> | RS 485, Modbus, TCP/IP and others on request | none                    | none                   |
| <b>Reliability</b>  | Excellent                                    | Good                    | Fair                   |
| <b>Size</b>   | Very Compact                                 | Bulky as its oil cooled | Compact                |
| <b>Maintenance</b>  | No   | Yes                     | Yes (In case of Relay) |

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