

50 **+**
YEARS
JOURNEY
OF **elsis**

Inrush Controlled Smart Switch Technical Specification

15-60 VDC
Input Voltage

Efficiency
>%99

40A Continuous/
100A Peak Current

Soft-Start Feature

Eighth-Brick
Electronic Switch

The ELSiS Inrush Controlled Smart Switch consists of a power stage and control technology to provide advanced functionality such as preventing damage caused by over voltage, over current, high temperature.

The ELSiS Smart Switch is either controlled by a master controller or operates stand alone. It is used to connect power supply with specified limit ranges to the load or to disconnect the load from the power supply.



Operational Features

- Ultra High Efficiency, more than 99% at full rated load current
- C Control & Measurement Facility
- Soft-Start Feature: Delivers up to 40A of output current and able to charge 20mF capacitive load at the same time
- Input Voltage Range: 15-60VDC
- Output Current Range: 40A Continuous 0.1/1ms Duty Cycle 100A Peak Current
- Digital Adjustable Current Limit
- Digital Adjustable Input Overvoltage/Undervoltage Limit
- Digital Adjustable Output Overvoltage/Undervoltage Limit
- Reverse Current Blocking Capability
- Operating Baseplate Temperature Range: -40°C +85°C

Mechanical Features

- Industry Standard Eighth-Brick Configuration
- Sizes: 25,90mm × 61,72mm
- Total Height Without Pin: 12,5mm
- Total Height With Pin: 17,5mm
- Total Weight: 66,2g
- Baseplated Model for Thermal Performance

Protection Features

- Input under-voltage lockout protects the Smart Switch at low input voltage conditions
- Over-current shutdown protects Smart Switch from excessive load current or short circuits
- Input/Output over-voltage protection protects load and regulator from damaging voltages
- Thermal shutdown protects Smart Switch from abnormal environmental conditions
- Input/Output Reverse Voltage Protection
- Digitally Configurable Auto-Restart or Latch-Off

Control and Interface Features

- Digital IO Control Interface: On/Off, Fault, Alert (3.3V and 5V Compatible Logic Input/Output)
- SMBUS Communication Interface

Key Applications

- DC Power Distribution
- High Side Switching for High Inrush Current Loads
- Compact Power Replacement for; Relays, Fuses, and Discrete Circuits

