



Trasformer Rectifier mod. LS

SAIT presents the LS series of stabilized SCR power supplies, which are suitable for installation in street cabinets. The power supply has an anodized aluminum frame that measures 420 x 300 x 300 mm (LxWxH).

The power supply can operate automatically in three modes:

- At constant current.
- At constant potential.
- At constant potential with a base current.

It has the following electrical characteristics:

- The power supply is powered by a single-phase alternating current mains at a nominal voltage of $230\text{ V} \pm 10\%$.
- The nominal frequency is $50\text{ Hz} \pm 1\%$.
- The maximum no-load output voltage is 50 Vcc .
- The maximum output current can be found in the attached table.
- The efficiency is $\geq 70\%$ at full load.
- The residual ripple of the output voltage is $\leq 1\%$ at full load.
- A potentiometer allows for continuous regulation for:
 - Output voltage from zero to the maximum value.
 - Output current from zero to the maximum value.
 - Cathodic potential from zero to 5 V .
 - Base current from zero to 25% of the maximum output current.
- The variation of the set parameters is $\leq 2\%$ of the set value.

Measurement instruments and devices include:

- An analog voltmeter ($0\div 60\text{Vf}$) for measuring the output voltage (V_u).
- An analog voltmeter ($+2\div -6\text{Vfs}$) for measuring the V_{ddp} .
- An analog ammeter for measuring the output current (I_u).

Adjustments:

- Output Voltage (V_u)
- Output Current (I_u)
- Pipe-to-Electrode Potential (V_{ddp})
- Base Current (I_b)



The power supply also features the following protections:

- Overcurrent protection for the AC input with a magnetothermal switch.
- Overcurrent protection for the DC output with a fuse.
- Overcurrent protection for the rectifier bridge with a fuse.
- Overvoltage protection.
- Protection against radio interference with filters.
- Protection against output polarity reversal.

Model	Output Voltage	Output Current
L 05	50 V	5A
L 10	50 V	10A
L 15	50 V	15A
L 20	50 V	20A
L 25	50 V	25A
L 30	50 V	30A

