

SITOP power power supplies



24 V power supplies

The 24 V power supply units from the SITOP range are optimized for industrial use and operate on the switched-mode principle. Due to the precisely regulated output voltage, the devices are even suitable for the connection of sensitive sensors. Different versions are available depending on the output current and field of application. In some cases, functional expansion is possible with add-on modules. For example, for back-up in the event of long supply system outages, DC UPS modules 6 A, 15 A and 40 A are available with external back-up by rechargeable batteries.

Modular power supplies with add-on modules

The modular concept is based on basic power supply units in compact design with outputs from 24 V/5 A to 24 V/40A, with

- Metal housing for standard rail mounting
- 5 A and 10 A units with single-phase and two-phase connection (L1 and N, L1 and L2)
- 20 A and 40 A units with single-phase or three-phase connection
- Adjustable output voltage up to 28.8 V
- 3 x LED status display
- Selectable short-circuit response, constant current or retentive shutdown
- Switchover for parallel operation
- Radio interference level Class B
- Input current harmonics limitation acc. to EN 61000-3-2 (except 6EP1337-3BA00)

Three add-on modules offer supplementary functions.

The signaling module can be snapped onto the side of the basic unit; complete with isolated signaling contacts "Output voltage OK" and "Ready"; with signal input for remote On/Off switching of basic unit.

The back-up module bridges line interruptions in the millisecond range. 100 ms at 40 A, 800 ms at 5 A, up to 3 s at minimal load current; standard rail mounting at any location in the control cabinet.

The redundancy module decouples the basic units from each other via diodes so that a redundant 24 V power supply can be established.

Power supply units and add-on modules

- Ambient temperature 0 ... 60°C (32 ... 140°F)

DC UPS modules

By combining a DC UPS module with at least one battery module and a SITOP power supply, long power failures can be bridged absolutely free of interruptions.

DC UPS modules

- Radio interference level Class B
- Ambient temperature 0 ...+60°C (+32 ... +140°F)

Battery modules

- 2.5 Ah: Ambient temperature -40 ... +60°C (-40 ... +140°F)
- 1.2 to 12 Ah: Ambient temperature 5 ... 40°C (41 ... 104°F)