

VARIODYN D1

Emergency power supply for voice alarm systems

- **Continuous monitoring of fuses**
- **Monitoring of battery charging current**
- **Monitoring of battery charge status**
- **LED displays for mains, battery, consumer load**
- **Temperature sensor**
- **Potential-free contacts for mains, battery, consumer load**
- **19" model, 2 height units**
- **EN 54-4 (A2) approved, CPD number: 0333-CPD-075381**
- **Effective and time saving calculation tool for PC available**



Utilization

The emergency power supply serves as secondary power unit for the VARIODYN D1

Output voltage

- 24 V DC
- Stabilized output voltage with enhanced filtering
- Short-circuit protected

Simple fitting

- High-performance connections
- Plug-in connections for remote information reports
- 6 individually fused 40 A consumer outputs for amplifiers
- 3 individually fused 5 A consumer outputs for e.g. DOMs

Battery capacity

With this emergency power supply, batteries of up to 150 Ah can be used (Part No. 581731).

The series connection of 2 batteries adds up to a capacity of 24 V / 150 Ah.

Battery capacity can be augmented up to a max. of 24 V / 210 Ah, if 4 accumulators 12 V / 105 Ah (Part No. 581730) are connected in series.

Safety monitoring

- Constant monitoring of all fuses (mains, consumer and battery fuses)
- Constant monitoring of batteries
- Monitoring of battery charge status
- Monitoring of battery charging current

Communication

- LEDs on the front: mains, battery, consumer load
- Remote display via potential-free contacts: mains, battery
- 1 LED "ON"

Simple utilization

- Modern, streamlined design
- Status LEDs on the front
- Inaudible



DOM



Power amplifier



USV



Battery

Specifications

Input

Voltage	230 V single phase $\pm 15\%$
Frequency	50/60 Hz
Grounding method	TT ¹⁾ , TN ²⁾ , IT ³⁾
Class	I
Power-on current	limited to 30 A
Primary current	< 2 A

Output

Nominal voltage	24 V
Open-circuit direct voltage (V _n) at half load and 25°C	27.2 V $\pm 0.5\%$
Rated current (I _n) and max. peak current	12 A/150 A (all outputs combined)
Rated current (I _n) of the charger	12 A
Battery current (charging)	limited to 75% of I _n

General specifications

Operating temperature	-5 °C ... +45 °C (at 100 % load)
Storage temperature	-25 °C ... +85 °C
Relative humidity	in operation and storage < 95 %
Weight	Approx. 6 kg
Dimensions (W x H x D)	430 x 88 x 260 (2 HU)

Order information

Part No.

Emergency power supply 24 V/12 Ah - 150 Ah	581721
Battery for emergency power supply 12 V/105 Ah	581730
Battery for emergency power supply 12 V/150 Ah	581731

1) TN earthing: One of the points in the generator or transformer is connected with earth, usually the star point in a three-phase system.

2) TT earthing: The protective earth connection of the consumer is provided by a local connection to earth, independent of any earth connection at the generator.

3) IT network earthing: The distribution system has no connection to earth at all, or it has only a high impedance connection.

In such systems, an insulation monitoring device is used to monitor the impedance.

For further order information, please refer to our voice alarm systems product catalog.