

7SV73 Power Supply Unit

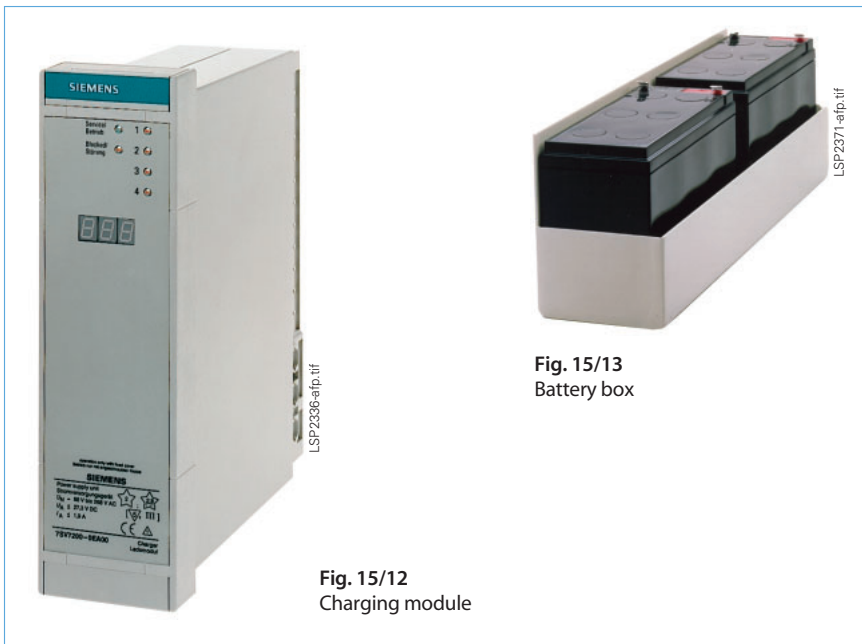


Fig. 15/12
Charging module

Fig. 15/13
Battery box

Description

The 7SV73 power supply unit is used for stations without a central DC voltage supply, i.e. stations too small to merit the use of a station battery. During normal operation, the power unit supplies the numerical protection relays with energy from the power supply unit while keeping the batteries fully charged. This energy is drawn either from the 100 V voltage transformer secondary circuit or from the 230 V station AC voltage.

In the event of a fault, the power unit 7SV73 is able to maintain an uninterruptible supply to the protection relays and at the same time operate circuit-breaker coils, if necessary. This energy is provided by two series-connected batteries, i.e. all components must have a voltage input of $V_N = 24$ V.


Function overview

The 7SV73 power supply unit features the following functions:

- Automatic battery connection in the event of a power failure (uninterruptible)
- For battery fault detection, the battery medium-voltage is fed to the monitor via fuse F4
- Exhaustive discharge protection with battery disconnection on drop below limit voltage
- Optical display with 6 LEDs on the front panel on the charging module
- One alarm relay with the group indication: battery operation and relay disturbance
- Three-position LED seven-segment display

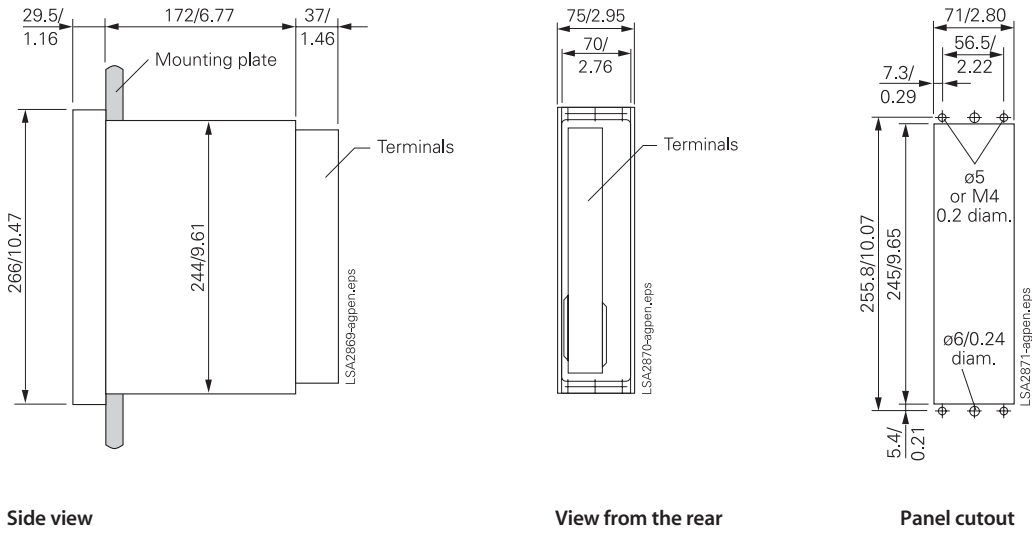
Because of the large battery capacity, several protection relays can be powered and several circuit-breakers operated at the same time. The output power given in the technical data must be taken into account.

Selection and ordering data

Description	Order No.
<i>7SV73 power supply unit in 7XP20 housing</i>	7SV7320-0□A00
<i>Unit design (charging module)</i>	
For panel surface mounting, terminal connection on side	B
For panel flush mounting, cubicle mounting	E
<i>Battery set</i>	
For replacement, two spare batteries (Panasonic, LC R 12 V 6.5 PD)	7XV2200-2AA00

Dimension drawings in mm / inch

Dimension drawings for 1/6 x 19" housing (7XP20)



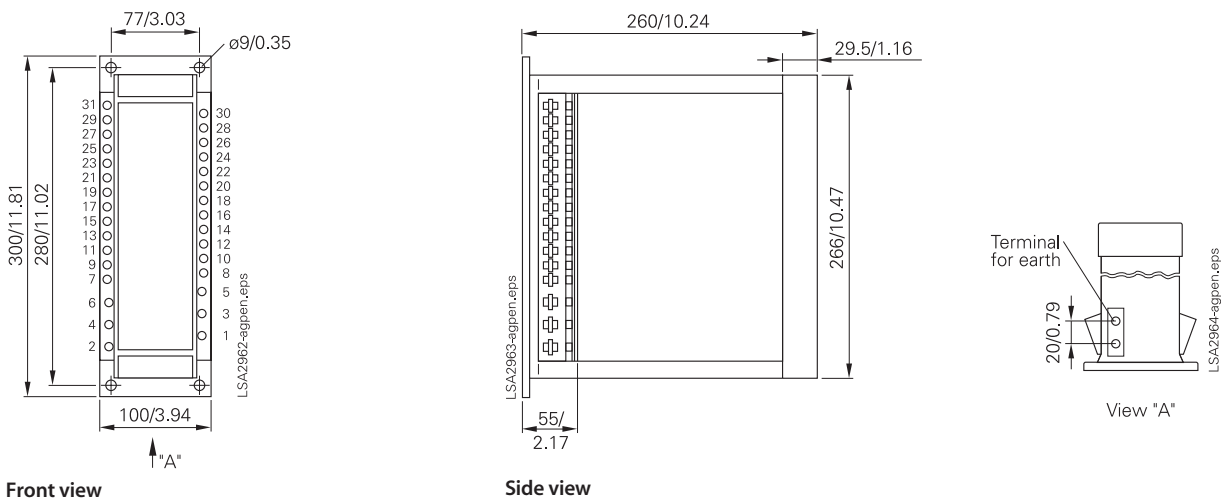
Side view

View from the rear

Panel cutout

Fig. 16/15
Housing for panel flush mounting/
cubicle mounting, terminals at rear (1/6 x 19")

Dimension drawings for 1/6 x 19" housing (7XP20)



Front view

Side view

View "A"

Fig. 16/17
Housing for panel surface mounting, terminals
on the side (1/6 x 19")