

## EYZ101: EY3600-UPS, UPS for compact AS and field modules

In the event of a mains power failure, the EY3600-UPS (uninterruptible power supply) guarantees an uninterrupted change-over to battery mode for a compact AS. At the same time, the UPS provides a back-up power supply of 24 V~ for the moduLink164, moduLink165 and moduLink170 field modules. There are four diagnostic LEDs (Power, AS UPS, EYY UPS and Fault) and two information outputs (for battery mode and alarm).



### Products

Type	Description	Weight (kg)
EYZ101F001	EY3600-UPS	0.1

### Technical data

Electrical supply	
Max. charge current	100 mA from 12 V/AS1 or 24 V~
Charge voltage	13.5 V
Max. charge time for 6 Ah battery	72 h
Cuts out	< 9.8 V
Back-up power supply	from 11.9 V
Information outputs	Battery mode, alarm

### Permitted ambient conditions

Operating temperature	0...45 °C
Storage and transport temperature	-25...70 °C
Humidity	10...90% rh no condensation
Accumulator specifications	Lead storage battery 12 V/6.0 Ah

### Standards, guidelines and directives

CE conformity as per	
EMC Directive 2004/108/EC	EN 61000-6-1/EN 61000-6-2 EN 61000-6-3/EN 61000-6-4

### Additional information

Fitting instructions	MV 505578
Dimension drawing	<a href="#">M02181</a>
Wiring diagram	<a href="#">A07766</a>

### Accessories

Type	Description
0367887001*	Lead storage battery 12 V/6 Ah

\* Dimension drawing or wiring diagram are available under the same number

### Engineering notes

Using a top-hat rail (EN 50022), the EY3600-UPS can be fitted in a motor control centre or anywhere in the installation, and linked to a lead storage battery (12 V, 6 Ah). When connecting, a slow-blow fuse of 3.15 A should be fitted in the battery line (negative pole). Ensure correct polarity of the battery. Batteries with a larger capacity than recommended may also be used. Please note that, since the charge current is limited to 100 mA, the charging period will be correspondingly longer. The charge current comes from either the AS or an external isolating transformer (24 V~).

### novalink field module for back-up power supply

The input for the back-up power supply of the novalink field module (terminals 31 & 32) is wired to the voltage output of the EYZ101 F001 (terminals 10 & 11). This voltage output provides 24 V~ in normal operation or 12 V in battery mode. To safeguard the EYY-UPS, an external supply of 24 V~ must be applied to terminals 8 & 9.

### Information outputs

- The digital 'Status' output signal (terminal 13) goes to an AS DI and is low in the case of battery mode
- The digital 'Alarm' output signal (terminal 14) goes to an AS DI and is high in the case of an incorrect battery voltage.

### LED display and diagnostics

AS Power	green	lights up	Power 12 V from AS1
AS UPS	green	lights up	Battery OK (13.5 V)
		not lit	Battery charge (100 mA max.)
		flashes	Battery mode (AS has back-up power supply)
EYY UPS	green	lights up	24 V~ mode
		not lit	Battery mode not in operation
		flashes	Battery mode (EYY has back-up power supply)
Fault	red	lights up	Battery voltage too low or too high (< 11 V or > 15.5 V)

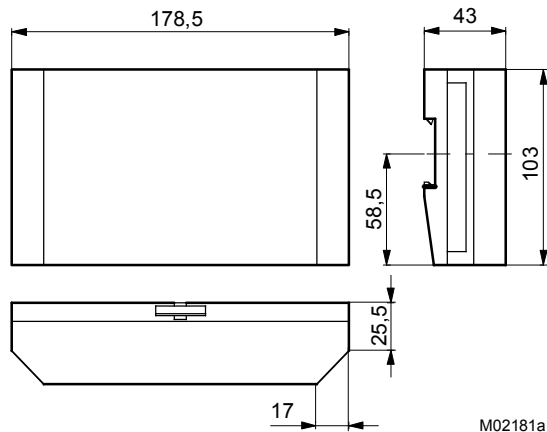
### Wiring

Battery	Terminal 1	negative - (dark blue)
	Terminal 2	positive + (red)
	Wire	2.5 mm <sup>2</sup>
	Length	max. 1.2 m
AS	Fuse	Slow-blow, 3.15 A, negative pole, fitted next to battery
	Terminal 3	Earth (dark blue)
	Terminal 4	+12 V + (red)
	Wire	2.5 mm <sup>2</sup>
Transformer	Length	max. 1.2 m
	Terminal 7	AS signal
	Length	max. 1.2 m
	Terminal 8	Earth
	Terminal 9	LS
	Wire	1.5 mm <sup>2</sup>
	Length	max. 1.2 m

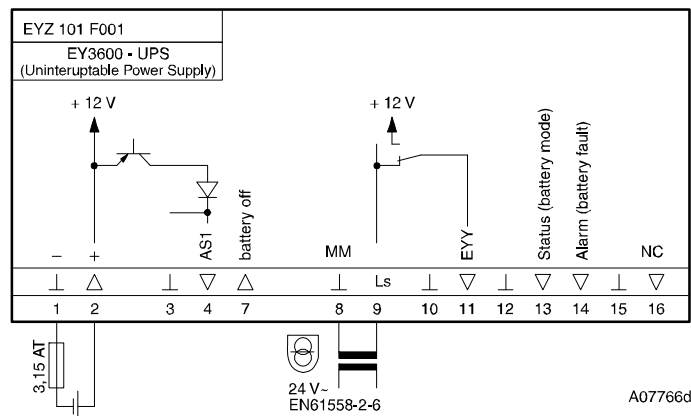
**Wiring (continued)**

EYY	Terminal 10	Earth
	Terminal 11	+12 V
	Wire	2.5 mm <sup>2</sup>
Information output	Terminal 12	Earth
	Terminal 13	Status
	Terminal 14	Alarm
	Length	max. 1.2 m

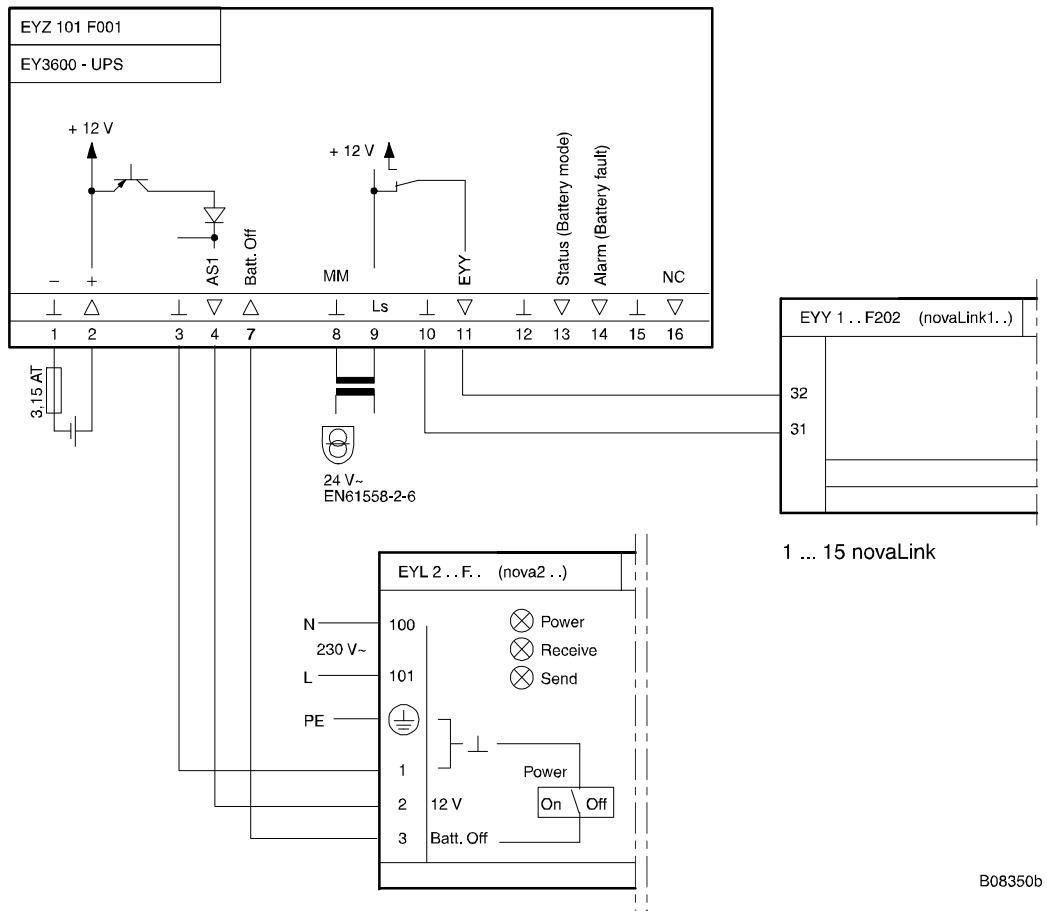
**Dimension drawing**



**Wiring diagram**



**Example of wiring**



**Accessories**

