

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 **novaLink164**, **novaLink165** and **novaLink170** field modules. There are four diagnostic LEDs (*Power*, *AS UPS*, *EYY UPS* and *Fault*) and two information outputs (for battery mode and alarm).



Type	Description	Weight [g]
EYZ 101 F001	EY3600-UPS	100
Technical data		
Max. charge current	100 mA from 12 V/AS1 or 24 V~	Ambient temp. 0...45 °C Transport and storage temp. -25...70 °C
Charge voltage	13.5 V	Humidity 10...90 %rh without condensation
Max. charge time for 6 Ah battery	72 h	Accumulator specifications Lead storage battery 12 V, 6 Ah
Cuts out	< 9.8 V	Wiring diagram A07766
Back-up power supply	from 11.9 V	Dimension drawing M02181
Information outputs	Battery mode, alarm	Fitting instructions MV 505578
Complies with:- EMC directive 89/336/EEC EN 61000-6-1/ EN 61000-6-2 EN 61000-6-3/ EN 61000-6-4		

Accessories

0367887 001* 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 EYZ 101 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:

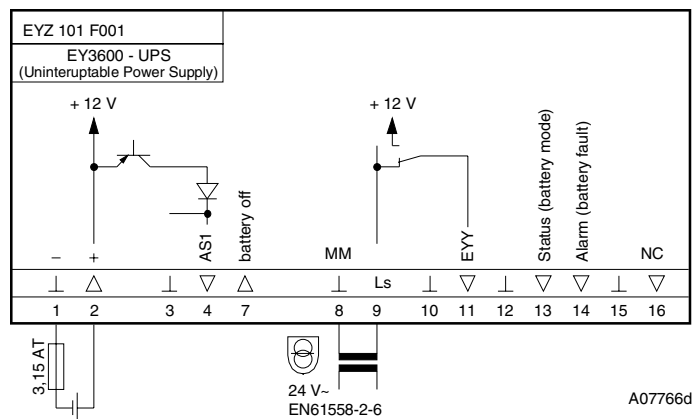
1. The digital 'Status' output signal (terminal 13) goes to an AS DI and is low in the case of battery mode
2. The digital 'Alarm' output signal (terminal 14) goes to an AS DI and is high in the case of an incorrect battery voltage.

LED display and diagnostics

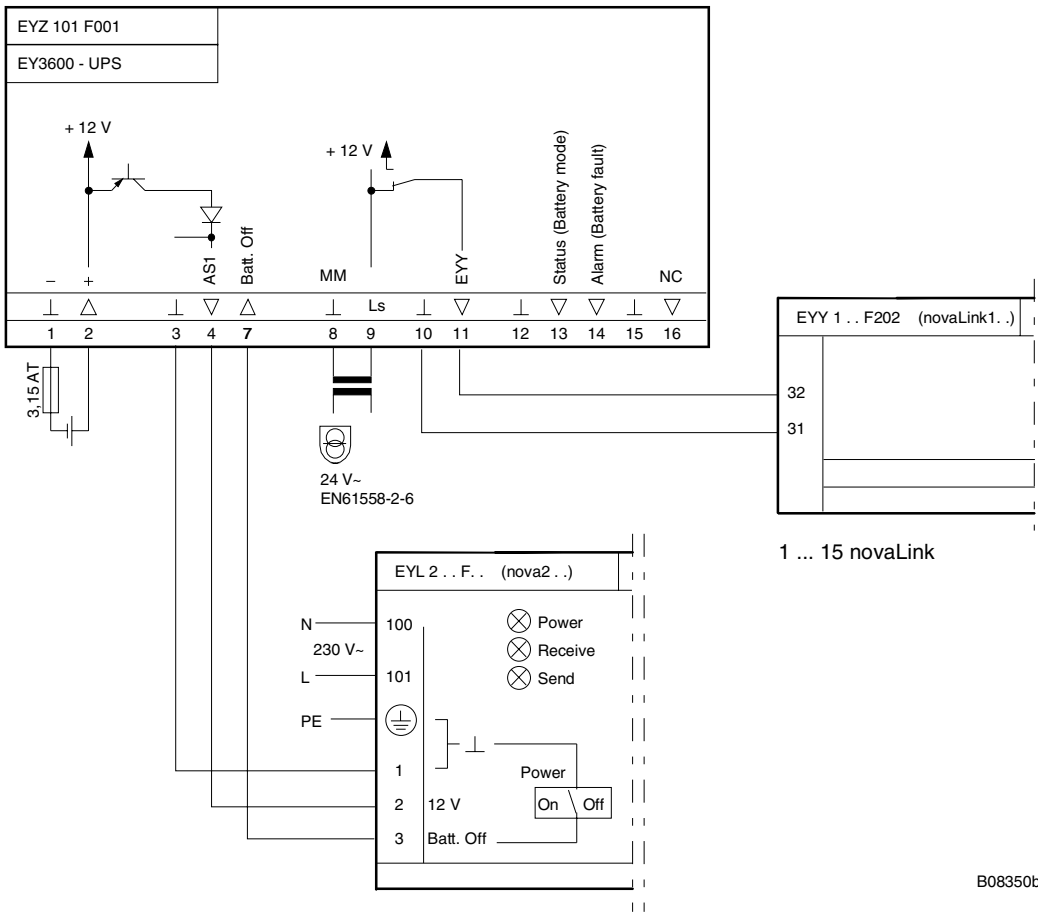
AS Power	green	lights up	Power 12 V from AS1
AS UPS	green	lights up	Battery OK (13.5 V)
		not lit	Battery charge (100 mA max.)
		flashes	Battery mode (AS has back-up power supply)
EYY UPS	green	lights up	24 V~ mode
		not lit	Battery mode not in operation
		flashes	Battery mode (EYY has back-up power 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 ²	
	Length	max. 1.2 m	
	Fuse	Slow-blow, 3.15 A, negative pole, fitted next to battery	
AS	Terminal 3	Earth	(dark blue)
	Terminal 4	+12 V +	(red)
	Wire	2.5 mm ²	
	Length	max. 1.2 m	
	Terminal 7	AS signal	
	Length	max. 1.2 m	
Transformer	Terminal 8	Earth	
	Terminal 9	Ls	
	Wire	1.5 mm ²	
	Length	max. 1.2 m	
EYY	Terminal 10	Earth	
	Terminal 11	+12 V	
	Wire	2.5 mm ²	
Information outputs	Terminal 12	Earth	
	Terminal 13	Status	
	Terminal 14	Alarm	
	Length	max. 1.2 m	

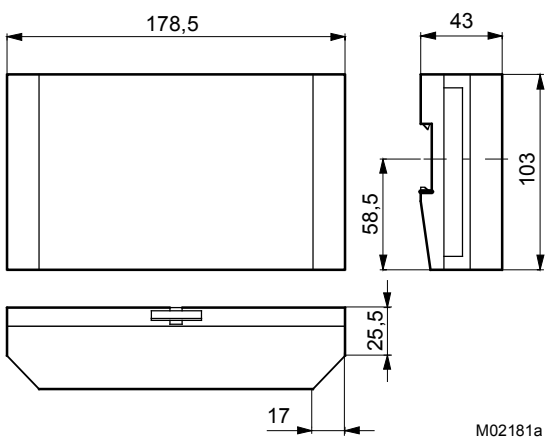
Wiring diagram for EYZ 101 F001



Example of wiring



Dimension drawing



Accessories

