

# TwinUPS 152410

1500 VA

- **230 VAC AND +24 VDC output**
- **Online technology (VFI-SS-111) with PFC**
- **Widerange input voltage**

The Twin UPS provides two separate voltages at the output. One is a sine AC voltage with 230 V / 50 or 60 Hz that is independent of the mains supply and the other is a 24 VDC voltage. In case of mains power failure both voltages are buffered. The TwinUPS can be applied in mechanical as well plant engineering and operates on the online principle using a sine inverter. Units with different output powers and voltages are available on request.



Technical data			
Output power	1500 VA, 1050 W		
Back up time	Only 230 VAC		
	100 % load	80 % load	50 % load
	5 min.	7 min.	15 min.
	Only 24 VDC		
	100 % load	80 % load	50 % load
	25 min.	30 min.	50 min.
Overload protection	Switch off with auto-recovery		
Charging time	App. 4 h charged up to 80 %		
<b>Input</b>			
Input voltage range	160...276 VAC at 100 % load		
Derating	70 % load at 140...159 VAC, 40 % load at 120...139 VAC		
Input frequency range	50 or 60 Hz $\pm$ 3 Hz (automatic frequency recognition)		
Input current with charged batteries	5.7 A		
Input current	8 A (at rated load, minimum input voltage and battery charging)		
Inrush current behaviour	Softstart		
Power factor (cos $\phi$ )	>0.97		
<b>Output AC</b>			
Output voltage	AC: 230 VAC, adjustable 208, 220, 230, 240 VAC		
Output frequency	50 / 60 Hz $\pm$ 0.5 %		
Output voltage tolerance	$\pm$ 2 %		
Efficiency at rated load	>90 %		
Overload	125 % for 1 min., 150 % for 10 sec.		
Short circuit protection UPS	Switch off of UPS or fuse at input line		
Wave form in UPS mode	Sine wave		
Power factor	0.7		
<b>Output DC</b>			
Output voltage	DC: 24 VDC / 10 A, other voltages and powers on request		
Overvoltage protection	Switch off at +26 V...31 V		
Short circuit protection	Switch off with auto-recovery		
Load regulation	$\pm$ 1 %, load step $\pm$ 40 % related to 60 % load		
<b>Bypass</b>			
Voltage tolerance	160...276 VAC		
Frequency tolerance	$\pm$ 5 Hz		

## Product specific data

### Interface

Sub-D 9 Pin female	RS232 interface and potential-free contacts (open collector), mains failure and battery low
USB	Standard 1.1
EPO	External emergency cutout of output via break contact

### Battery

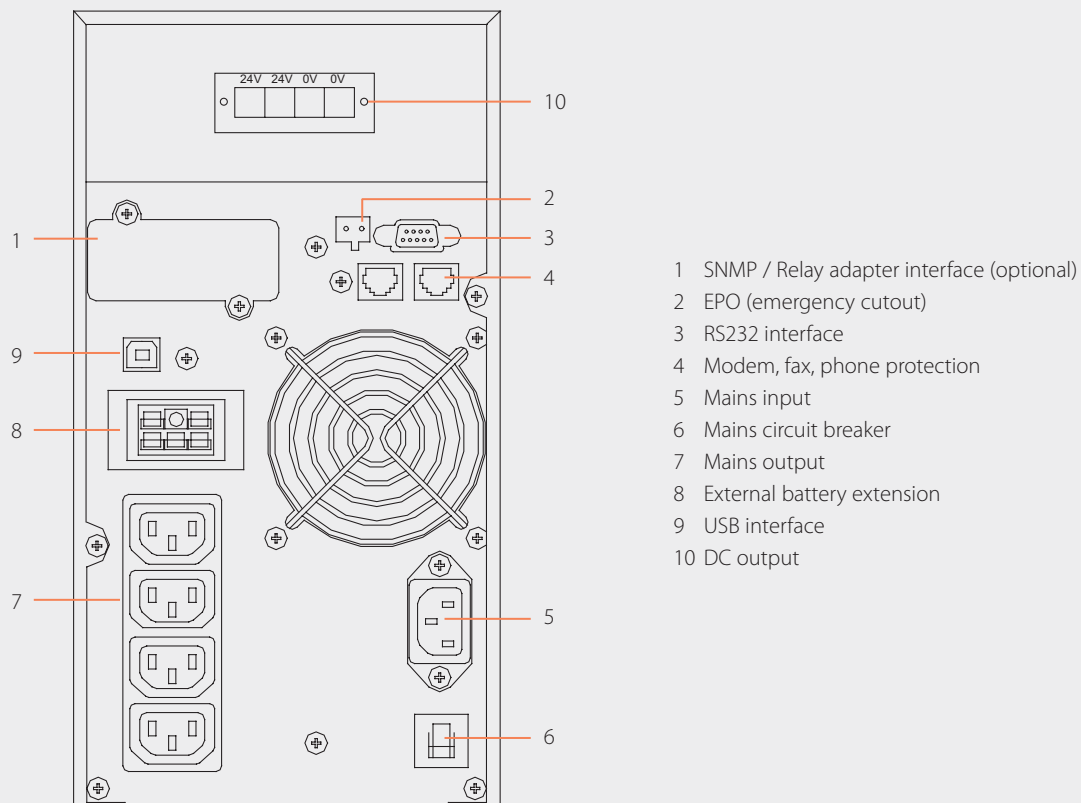
Type of battery	Lead-gel battery, closed and maintenance-free
Nominal voltage	36 V
Number of 12 V blocks	3 pcs.
Nominal capacitance	9 Ah
Charging voltage	41 V
Charging current	1.5 A
Battery test	Automatically, once a month

### General data

Chassis material	Sheet steel / front plastic
Chassis colour	Light grey / yellow
Ingress protection	IP 21
Operating humidity	0...95 % RH, non-condensing
Operating temperature	0...40 °C
Dimensions	310 x 155 x 420 mm ±1 mm
Weight (net)	22 kg

The service life of the batteries is app. 4...5 years at +20 °C and will decrease by half with each temperature increase of 10 °C according to EUROBAT.  
During storage the UPS has to be charged at least every 6 months.

## Drawing TwinUPS 152410



Tolerance ±1 mm