

# UPS 1-3 KW RT Industrie

Based on RT Industrie, EFFEKTA® develops individual systems for industrial use or for projects with customized requirements for UPS technology (individual customizing).

The high-quality metal housing with its exceptionally compact design and particularly low installation depth is ideally suited even for smaller network or control cabinets.

The RT Industrie UPS series has replaceable dust filters as standard, giving it the ideal robustness for harsh industrial conditions.



## ■ Details



RT Industrie 1 kVA rear panel  
Above Schuko sockets, below powerCON terminals



RT Industrie 3 kVA rear panel with external battery pack (bottom) and hardwired input and output

## ■ Examples of special adaptations:

- Additional battery modules to increase the back-up time to several hours
- Special batteries, for example 10 year batteries
- External manual bypass for scheduled UPS maintenance or UPS replacement without shutdown
- Special connections for power supply inputs or consumer outputs (IEC, powerCON, terminals, etc.) or sub-distributions
- Special housings, like IP54 housings, air-conditioned versions, outdoor housings or 19" systems
- Special colors incl. logo/footprint, standard is RAL 7035 (light grey)
- Monitoring, remote shutdown, emergency stop

... and more. Ask us, we will be pleased to advise you!

## ■ High-tech – even in the basic models

- Hot swap function



RT Industrie batteries have been designed for replacement during operation (hot swap). To this end, the front panel can be easily removed without much effort or tools. This increases the availability of your UPS many times over, even in the event of maintenance.

- Replaceable dust filter

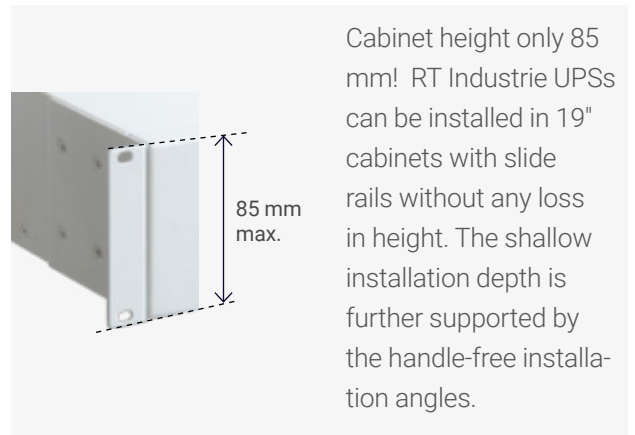


Is your UPS supposed to work in a dusty, harsh industrial environment for a long time without malfunctions or failures? This is made easier by the replaceable dust filters of RT Industrie, which protect the interior of the UPS from harsh environmental conditions such as dust and dirt.

- 6-pin battery connector including PE connection (protective earth) / Compact and practical design



Safe and secure connection between the external battery packs and the UPS (3000 VA version) by means of 6-pin battery connectors including PE connection.



Cabinet height only 85 mm! RT Industrie UPSs can be installed in 19" cabinets with slide rails without any loss in height. The shallow installation depth is further supported by the handle-free installation angles.

- Standard emergency stop connection / from 3 kVA also remote on/off



Where high safety requirements are involved, the RT Industrie fits perfectly into the overall project with its standard emergency power off (EPO) connection and remote on/off connection (ERO External / standard from 3000 VA version, can be retrofitted for 1000 VA).

## ■ There's no such thing as "can't": customised solutions

### ■ Customised UPS input and output connections



You can choose between hard-wired versions, Schuko sockets or special sockets such as Neutrik powerCon or lockable IEC sockets to secure the plug connections against accidental disconnection or polarity reversal.

Our development team implements a wide variety of connection types for consumer outputs or inputs along with the appropriate communication systems for your individual project. Please do not hesitate to ask us, we will be happy to advise you!

UPS inputs and outputs in all common designs and adapted to your specific needs.

### ■ 19" universal mounting rails



Sliding installation rails for 19" cabinets to ensure secure mounting in the 19" cabinet.

- Suitable for 470-740 mm installation depth
- Up to 35 kg load capacity
- Mounting material included

### Further options:

- Additional battery modules extending the bridging time to several hours
- Special batteries such as 10-year batteries
- External manual bypass for scheduled UPS maintenance or UPS replacement without having to power down
- Bespoke products available for industrial applications (special enclosures, paint finishes, etc.)

## Characteristics

- UPS classification VFI-SS-111 according to IEC 62040-3
- Online continuous converter with sine wave output switchable to ECO mode (line-interactive)
- Wide voltage input window
- UPS software for the most common OS
- Incl. RS232/USB and expansion slot
- 24 months warranty

## Special features

- Excellent output power factor of 1.0
- Compact design of only 2 U and very low installation depth
- High-quality metal housing in industrial design
- RAL 7035 Light grey
- Project-flexible various input and output connections selectable
- Integrated emergency stop contact (EPO)

## Specifications

RT Industrie		RT Industrie 1000	RT Industrie 3000	
<b>Power</b>	Power in VA / W	1000 / 1000	3000 / 3000	
<b>Autonomy time</b> 100 % / 50 % load (PF 0.7)	Standard configuration in min.	5 / 11	4 / 9	
	Higher autonomy times	on request		
<b>Technology</b>	Online double conversion	VFI-SS-111 in accordance with IEC 62040-3		
<b>Phases</b>	Input / Output	1-phase / 1-phase		
<b>Input</b>	Nominal voltage configurable	230, 240 VAC		
	Input voltage range	110 VAC – 300 VAC ±5% (load dependent)		
	Input frequency range	50 / 60 Hz (auto-sensing)		
<b>Output</b>	Output voltage configurable	200, 208, 220, 230, 240 VAC		
	Voltage regulation	±1 %		
	Frequency range	50 / 60 Hz ± 0.1 %		
	Transfer time AC<>Battery	none		
	Transfer time Inverter<>Bypass	4 ms (typical)		
	Overload capability (normal mode)	105~110 % for 10 min., 110~130 % for 1 min., 130~150 % for 5 sec. >150 % immediate switchover to bypass		
	Overload capability (battery mode)	105~110 % for 1 min., 110~130 % for 5 sec. >130 % immediate shutdown of the UPS output		
	Voltage form	sine wave		
	<b>Efficiency</b>	Normal mode	>91 %	>92 %
		ECO-mode	>98 %	
<b>Battery</b>	Typ	12V 9 Ah		
	Nominal DC-voltage	24 VDC	96 VDC	
	Design life	5 years (optional 10 years)		
	Charging current (max)	max. 2 A	max. 12 A	
	Recharging time	app. 4h to 90 % capacity (depending on the equipment)		
<b>Communication</b>	Interfaces	RS 232 / USB / EPO	RS 232 / USB / EPO / remote ON/OFF	
	Expansion slot	for optional relays- or SNMP-card		
<b>Dimensions w/o connection plug /-cable</b>	UPS (H x W x D in mm)	85 x 440 x 421	85 x 440 x 435	
	Battery pack (H x W x D in mm)	Internal batteries		
<b>Weight</b>	UPS in kg	12.2	9.1	
	Battery pack incl. batteries in kg	-	28.1	
<b>Protection</b>	Protection	IP 20		
	Color	RAL 7035 (light grey)		
	<b>Terminals</b>	Input Version: IEC / Schuko / powerCON	IEC (10A) / IEC (10A) / AC3MPA-1	hard wired
Output Version: IEC / Schuko / powerCON		8 x IEC C13 (10 A) / 2 x Schuko / NAC3MPB-1	hard wired	
<b>Environmental conditions</b>	Temperature	0~40°C		
	Humidity	20~90 % (non condensing)		
	Acoustic noise	<50 dB (1 m)		
<b>Safety / standards</b>	Safety	EN62040-1		
	EMC	EN62040-2, class 2		
	Approvals	CE		