

# UPS

## ADIRA LI RT 1-3 kVA

With built-in lithium batteries, the ADIRA LI RT 1-3 kVA UPS series achieves significantly longer battery times than with conventional lead batteries. As a "racktower" model, it can be set up both vertically and horizontally and is suitable for installation in 19" cabinets. The LCD display can be rotated by 90°. The ADIRA LI RT 1-3 kVA has a power factor of 1.0.



The UPS It can be perfectly integrated into your monitoring system thanks to the integrated RS232 and USB interfaces and an optional SNMP card (via the expansion slot). The UPS has extensive setting options, such as password protection, wiring errors, overload alarm.



### ■ Lithium iron phosphate (LiFePo4) batteries



- Twice as long service life compared to conventional lead-acid batteries
- Increased operating temperature range
- Increased number of possible charge/discharge cycles
- Lower weight with the same battery capacity

### ■ Detail views



Back sides from left to right: 1kVA / 2kVA / 3kVA

## Characteristics

- UPS classification VFI-SS-111 according to IEC 62040-3
- Excellent power factor of 1.0
- Online double-converter with sine output switchable to ECO mode (line-interactive)
- User-friendly DOT matrix LCD display
- Very high efficiency of up to 96% in normal operation
- Large input voltage window (160-300VAC)
- Lithium batteries as standard
- Central battery cell management
- programmable load segments/output sockets
- LCD display supporting 8 languages
- LCD display can be rotated 90° for device use as a tower or for 19"-installation
- Incl. RS232/USB and expansion slot
- UPS software for the common operating systems
- 36 months warranty

## Specifications

ADIRA LI RT		1000	2000	3000
<b>Power</b>	Nominal Power in VA	1000 / 1000	2000 / 2000	3000 / 3000
<b>Autonomy time 100/50% load</b>	Standard configuration in min.	18 / 35	12 / 25	10 / 20
	Higher autonomy times	On request		
<b>Technology</b>	Online double conversion	VFI-SS-111 (IEC 62040-3)		
<b>Phases</b>	Input / Output	1-phase / 1-phase		
<b>Input</b>	Nominal voltage	220/230/240VAC		
	Input voltage range	160~300VAC		
	Input frequency range	40Hz~70Hz (45~55Hz/54~66Hz @ Load>60%)		
	THDi	<5%		
<b>Output</b>	Output voltage	220/230/240VAC		
	Voltage regulation	±1%		
	Frequency range	50/60 ± 0.2Hz		
	Transfer time	none		
	Overload Capability	100 %~105 %: Continuous operation; 105 %~125 %: > 5 min; 125 %~150 %: > 30 s; >150 %: > 500 ms		
	Voltage form	Sine wave		
<b>Efficiency max.</b>	Normal mode	91.7 %	93.8 %	94.3 %
	ECO mode	97.1 %	97.8 %	98.4 %
<b>Battery</b>	Voltage	48 VDC	76.8 VDC	76.8 VDC
	Capacity (Ah)	9 Ah		
	Type	Lithium		
	Estimated life time	10 years		
	Charging current (max)	1,5 A		
	Recharging time 90%	3.7 h	4.6 h	4.6 h
<b>Communication</b>	Interface	RS 232, USB (incl. USB HID function), relay contact, RPO		
	Card Expansion Slot	1 x for optional SNMP or relay card		
	Display	LCD display and LED indicators		
<b>Dimensions / Weight</b>	Dimensions UPS (HxWxD in mm)	85.5 (2U x 438 x 445		85.5 (2u) x 438 x 600
	Dimensions battery pack (HxWxD in mm)	14.95	21.1	21.45
	Protection class	IP20		
<b>Terminals</b>	Input	IEC C14 (10 A)	IEC C20 (16 A)	IEC C20 (16 A)
	Output	8 x IEC C13 (10 A)	8 x IEC C13 (10 A)	8 x IEC C13 (10 A) 1 x IEC C19 (16 A)
<b>Environmental conditions</b>	Temperature	0-40°C (@i 80% load up to 45° C)		
	Humidity	20~90 % (non condensing)		
	Acoustic noise	<45 dB (1 m / @ typical load)		<50 dB (1 m / @ typical load)
<b>Protection/ Standards</b>	Safety	IEC/EN62040-1, UN38.3		
	EMC	IEC/EN62040-2 Klasse C2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5		
	Certifications	CE		