

Switchmode rectifier type LEIF with PFC



Rectifier / DC-UPS
with or without batteries
with or without alarm.

Usage:

The rectifier is specially designed for charging and maintenance charging of lead acid batteries. A battery can easily be added inside the rectifier to make a complete unit.

Applications:

The rectifier type LEIF is primarily designed for alarm applications, but suits most industrial purposes that need continuous power or as a backup power unit.

Technology:

The charger is primary switched with high frequency (100kHz) which gives good load and line regulation, small dimensions, high efficiency and low weight.

Internal batteries:

A battery can easily be added to the unit. Suitable batteries are valve regulated 12V 7Ah types, with a typical lifetime of 5 years.

Design:

The charger LEIF is designed for indoor wall mounting. The cabinet has 2 downward directed inlet holes for cables. The charger is built in a metal case and is lacquered in a gray color.

Fuses:

The charger is short circuit proof and is protected by fuses. The battery has 2 fuses, one in each branch. The battery fuses protect the battery and load. The fuses are of Autofuse type.

Manufacturer: Rätt Kraftförsörjning RKA AB

Benefits for the user:

+ Complete unit	→	every thing ready in one unit.
+ Easy installation	→	ready, only cable in / out.
+ Tested in factory	→	saves time and money.
+ Small dimensions	→	easy to install.
+ Excellent load and line regulation	→	increased lifetime of the battery.
+ High efficiency	→	low energy consumption.
+ Low noise level	→	almost totally silent.
+ Powerfaktor PF 0,99	→	sine wave input.

Product program:

Made for fixed installation, input 230VAC 1-phase 50 or 60Hz and output 12V, 24V, 48V or 110V DC

Art-no	Order code	Voltage Current Rec. linefuse			Rom for batteries	Dim i mm			Weigth with and without batt	
		Volt	Amp	Amp		W	H	D	kg	kg
E52 431 00	LEIF 12/2,5	12V	2,5A	6A	1pcs.	265	155	80	2,2	6
E52 431 02	LEIF 12/5	12V	5A	6A	1-2 pcs.	300	315	80	4,4	7
E52 431 04	LEIF 12/10	12V	10A	6A	1-2 pcs.	300	315	80	4,4	12
E52 431 06	LEIF 12/20	12V	20A	6A	—	435	370	150	8	—
E52 431 10	LEIF 24/1,25	24V	1,25A	6A	2 pcs.	300	315	80	4,2	10
E52 431 12	LEIF 24/2,5	24V	2,5A	6A	2 pcs.	300	315	80	4,2	11
E52 431 14	LEIF 24/5	24V	5A	6A	2 pcs.	300	315	80	4,4	12
E52 431 16	LEIF 24/10	24V	10A	6A	—	435	370	150	8	—
E52 431 18	LEIF 24/15	24V	15A	6A	—	435	370	150	9	—
E52 431 20	LEIF 24/20	24V	20A	6A	—	435	370	150	10	—
E52 431 22	LEIF 24/35	24V	35A	10A	—	435	370	150	10	—
E52 431 30	LEIF 48/2,5	48V	2,5A	6A	—	435	370	150	10	—
E52 431 32	LEIF 48/5	48V	5A	6A	—	435	370	150	10	—
E52 431 34	LEIF 48/10	48V	10A	6A	—	435	370	150	10	—
E52 431 36	LEIF 48/15	48V	15A	10A	—	435	370	150	10	—
E52 431 40	LEIF 110/2,5	110V	2,5A	6A	—	435	370	150	10	—
E52 431 42	LEIF 110/5	110V	5A	6A	—	435	370	150	10	—
E52 431 44	LEIF 110/7,5	110V	7,5A	10A	—	435	370	150	10	—
E52 431 90	Battery case	12-48V	16A		1-4pcs	310	315	80	2	—

Product program charger with alarm:

The electronic alarm board contains the following standard alarms: Mains power failure, Charger failure, and two voltage level alarms, that either can be configured as Charge level over/under voltage limit or as Low battery voltage and High battery voltage. The charger has a green OK LED and a red sum-alarm LED on the front panel. Alarm that goes away are automatically reset. Sum-alarm is signaled by one relay with potential free changeover contact.

Art-no	Order code	Voltage		Current		Rec. linefuse	Rom for batteries	Dim i mm			Weight with and without batt	
		Volt	Amp	Amp	Amp			W	H	D	kg	kg
E52 431 03	LEIF 12/5L	12V	5A	6A		6A	1-2 pcs.	335	315	80	4,6	7
E52 431 05	LEIF 12/10L	12V	10A	6A		6A	1-2 pcs.	335	315	80	4,6	12
E52 431 07	LEIF 12/20L	12V	20A	6A		6A	—	335	315	80	4,6	—
E52 431 13	LEIF 24/2,5L	24V	2,5A	6A		6A	2 pcs.	335	315	80	4,4	11
E52 431 15	LEIF 24/5L	24V	5A	6A		6A	2 pcs.	335	315	80	4,6	12
E52 431 17	LEIF 24/10L	24V	10A	6A		6A	—	435	370	150	9	—
E52 431 19	LEIF 24/15L	24V	15A	6A		6A	—	435	370	150	10	—
E52 431 21	LEIF 24/20L	24V	20A	6A		6A	—	435	370	150	11	—
E52 431 23	LEIF 24/35L	24V	35A	10A		10A	—	435	370	150	11	—
E52 431 90	Battery case	12-48V	16A				—	310	315	80	2	—

Typical maximal load currents and backup time for different units: (Max 15A battery fuse)

Battery	5 min	10min	30 min	1 hour	2 hour	3 hour	5 hour	10 hour	24 hour
7Ah	5A	5A	5A	3,9A	2,3A	1,6A	1,1A	0,6A	0,2A
2x7Ah	10A	10A	10A	7,8A	4,6A	3,2A	2,2A	1,2A	0,4A

Technical specification

Rectifier:

AC input voltage

230V +15% -15%, 1-phase 47-63Hz

Powerfactor

Better than 0,99

Cos fi

Better than 0.99

DC output voltage

Nominal 12V, 24V, 48V or 110V DC

Load and line regulation

Better than $\pm 0,5\%$ before output fuses

Output current limit

102% of nominal current

Constant voltage

I/U according to DIN 41773

Efficiency

Better than 85%

Ripple

Better than 0,05% RMS

Emission

According to EN 50 081-1 and EN 50 081-2

Immunity

According to EN 50 082-1 and EN 50 082-2

EMC

According to EN 61000-3-2

RFI / EMI

According to EN 55022 B and CISPER 22 B

Harmoniserad standard

According to EN 60742 and EN 60950

Cabinet

IP 20

Battery:

Battery capacity

7Ah, 1 x 12V or 2 x 12V

Battery fuse

fuse in positive and negative branch

Extra battery case:

Battery

12V batteries 6,5-7Ah

Battery size

65x151x94 mm

Number of batteries

1-4 pcs.

Output voltage

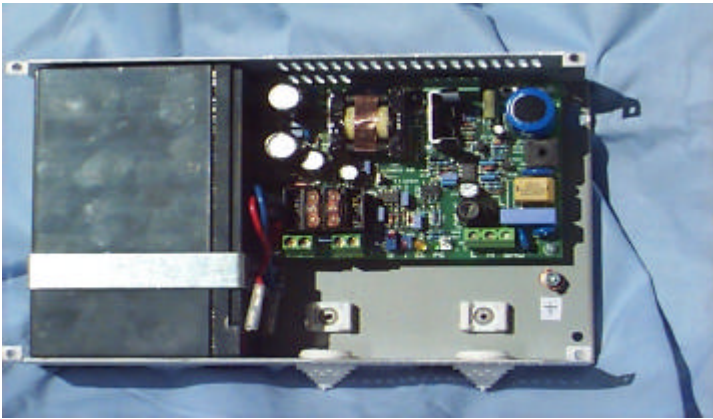
12V, 24V or 48V

Battery fuse

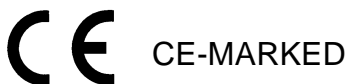
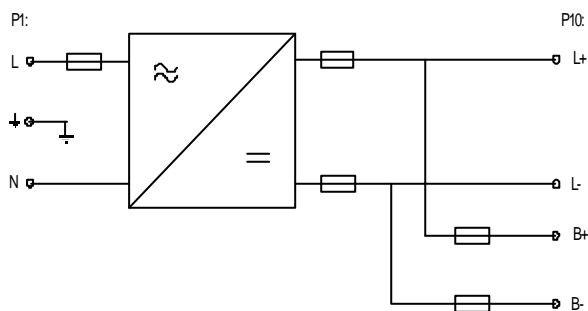
16A 2-pole

Dimensions

300x315x80 mm (WxHxD)



Rectifier type LEIF 12/2,5 complete with battery.



We reserve us the right to change technical data without prior notice.

EXIDE Danmark A/S

Bødkervej 11

DK 7100 Vejle

Tel. (+45) 75859922

Fax. (+45) 75858177