Liebert® UtilitySure

Industrial Rectifier - Battery Charger From 1 to 22kW - 1ph or 3-ph input



Liebert[®] UtilitySure

Configured to order with industrial options. Pre-defined blocks for shorter lead time.

BENEFITS

• High availability of power:

- Hot-swappable to reduce the MTTR (Mean Time to Repair)
- Various redundancy levels N+1 or 2(N+1) to improve load continuity
- High electrical performances:
 - Wide input voltage tolerance to comply with the worst utility conditions
 - High input power factor, low THDi rejection and low inrush current to save installation and operation costs
 - High efficiency to lower power consumption

• Industrial flexibility:

- Fit-for-purpose battery selection (Lead Acid or Nickel-Cadmium)
- Scalability to meet the evolving load changes
- Pre-configured options to suit industrial applications

APPLICATIONS

- Power Transmission and Distribution substations
- Power Generation plants
- Rail transportation infrastructures
- Chemical industries
- Water and Wastewater industries
- Continuous process industries

The Liebert UtilitySure is an industrial rectifier - battery charger offering the latest switch-mode technology and bringing compactness and high reliability.

The Liebert[®] UtilitySure is designed to meet the most demanding schedules of industrial projects. It includes a wide choice of ratings and a selection of industrialized and preconfigured options to allow the product to be quickly configured and delivered.



Flexibility for a wide scope of industrial requirements

The Liebert[®] UtilitySure is available from 10 to 250 A (in a single cabinet) in single phase or threephase input configurations. It offers a wide range of output voltages, from 24Vdc to 220 Vdc. The Liebert® UtilitySure features a wide input voltage tolerance, which makes the system compatible with the harshest industrial power grids. It also features a icroprocessor control which offers exceptional stability and allows adaptability for different application needs. To further improve load availability and process reliability, the Liebert® tilitySure is able to operate in dual parallel configurations. This configuration can be achieved either to double the output power available (up to 22kW) or to achieve 2(N+1) redundant system configuration.





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POWER RANGE				
Rating	24Vdc	48Vdc	110Vdc	220Vdc
Rating with	75	50		
single-phase input	150	100		
	225	150		
		200		
		250		
Rating with			40	20
three-phase input			80	40
P. C.			120	60
			160	80
			200	100

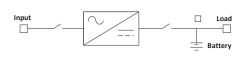
The above-mentioned ratings are for systems in one cabinet only. Higher ratings can be achieved by duplicating the cabinet.

OPTIONS Rectifier Coupling diode (for dual systems configurations) Dropping diode (max 3 Contactors, 7 steps) s Battery External battery circuit protection (circuit breaker) Battery Low Voltage Disconnection (LVD) Battery earth fault detection Temperature sensor for battery charge compensation Battery monitoring system (Lead acid block or cell, max 24 measures) Batteries inside charger cabinet (on shelves or drawers) * 1 pole Feeder Circuit Breaker Load 2 pole Feeder Circuit Breaker Mechanical External ingress protection up to IP42* Space heater Halogen-free cables as per IEC60332-3 Special frame painting and special keylock Special feet height (200mm or 300mm) STANDARDS Compliance IEC 60950 - IEC 61000-6-2 - IEC 61000-6-4 IEC 60146-1-1 - IEC 60439-1 CEM 2004/108/CE Compliance Basse tension (DBT) 2006/95/CE

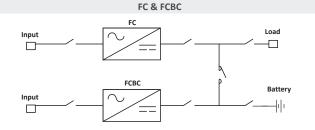
Input					
Model		UtilitySure	UtilitySure		
		(Single-phase)	(Three-phase)		
Input voltage (other on ree		230 Vac (220, 240)	400 Vac (380, 415)		
Input voltage range		230Vac ±20%	400Vac ±20%		
Power facto	r	0.98 to 0.99	0.92 to 0.99		
Frequency range		From 45 to 65 Hz			
Output		Available rating 10 to 250 A in one single cabinet (see table above)			
Nominal DC voltage		24, 48, 110, 220 VDC			
Static regulation		±0.5 %			
Voltage ripple		< 0,5 % rms (in float, battery disconnected)			
Charging characteristic		IU according to DIN41773			
Battery					
Туре		Lead Acid or Nickel Cadmium, vented or recombination			
Autonomy		From few minutes to several hours, as required			
General Da	ata				
Rectifier efficiency		Up to 92.5 % (according to model)			
Operating temperature		From 0 to 40 °C (without derating) **			
Storage temperature		From -20 °C to +70 °C (battery excluded)			
Relative humidity		<95 % non-condensing at 20 °C			
Operating altitude		1000 m (without system derating)			
Cooling		forced			
External Ingress Internal IP with door open		Up to IP 42 IP 20			
Internal ID u	nth door open	Internal lighting / Lifting eyes			
			<60 dB		
Internal IP w Mechanical Noise					
Mechanical	ır				
Mechanical Noise Frame colou	ır (Upto 100A)	<60 dB			
Mechanical Noise Frame colou		<60 dB RAL 7035 (Standard)	0 600 mm		

*Limitations apply according to the rating and the required options, please consult us

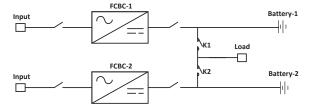
CONFIGURATIONS



FCBC



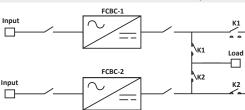
DUAL FCBC WITH 2X100% BATTERY, COMMON LOAD

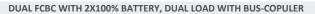




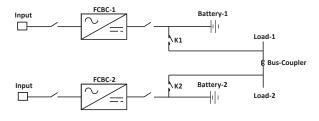
DUAL FCBC WITH 1X100% BATTERY, COMMON LOAD

FCBC WITH VOLTAGE DROPPING DIODES





Battery



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