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Excel CF
600 W - 8 kW

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DC UPS - RECTIFIER - BATTERY CHARGER

EXCEL CF DC UPS 600 W - 8 kW

The Range

Chloride's Excel CF range of rectifiers/chargers is available in 1-phase input configuration from 600W to 3kW, and in 3-phase input configuration from 900W to 8 kW.

Flexibility for customized solutions

The Excel CF range can be fully adapted to meet the diverse power needs of your load. 5 DC voltages are available in a single dimension cabinet, each of them offering a wide range of standards ratings.

Particular care has been taken in the design of the system to offer a compact DC UPS system with the lowest footprint.



The result is a charger that can be:

- overlaid on one battery cabinet,
- juxtaposed with one or several battery cabinets.

A wide range of options is available enabling us to tailor solutions:

- parallel configuration for 100% redundancy,
- input protection by a two or three-pole thermal-magnetic three-pole circuit breaker,
- integration of up to 5 DC output feeders in the cabinet,
- IP 41 external protection...

Reliability and accessibility

The Excel CF range uses thyristor-rectifying method. This renowned technology ensures long-lasting reliability and performances to the DC UPS system.

Excel CF is a seal of reliability for your mission critical DC loads. Its design is the result of Chloride's long experience in harsh industrial applications.

The resulting benefits are:

- system lifetime of at least 20 years in continuous operation conditions,
- space optimization on site in the technical rooms,
- front access to the internal components, reducing MTTR and easing maintenance operations.

Communication

With the Excel CF range, the user visualises all the necessary information from the front of the equipment:

- the digital display is available as standard and allows reading of up to 4 DC measurements,
- the 6 LEDs provide the user with quick understanding of the operational status of the Excel CF charger.

Furthermore, fault information is available on voltage-free contacts to allow remote monitoring of the system.



Advanced battery care

The Excel CF range is fully compatible with lead-acid and nickel-cadmium batteries.

Also available as options are:

- battery low voltage disconnect contactor,
- compensation of the battery floating voltage according to temperature,
- low-voltage or end-of-autonomy alarm.

Applications

The Excel CF range protects direct current power supply for many applications such as:

- emergency lighting,
- alarm systems,
- access control,
- auxiliary relays and automation systems,
- HV/LV circuit breaker control system of private electrical substations,
- control and signalling...



Secure Power Always

In order to reach the highest level of business continuity, Chloride offers a range of maintenance plans, which will:

- help deliver reliability of your load,
- increase the lifetime of your power protection equipment,
- optimize your capital expenditure,
- provide risk management at a fixed cost,
- provide a pro-active approach to disaster recovery.

For more information please contact your local Chloride sales office.

www.chloridepower.com

Delegate your power management to the experts.

Technical data

	Rating (A)	16	25	40	60	80	100	125
1-Phase input 1x230VAC				24 VDC				
				48 VDC				
			110/120 VDC					
3-Phase input 3x400VAC					24 VDC			
					48 VDC			
				110/120 VDC				
							220 VDC	

Input

Nominal AC input voltage	230 VAC	3 x 400 VAC
Input voltage tolerance	-10% / +15%	-10% / +15%
Input frequency	50 Hz (60 Hz)	50 Hz (60 Hz)
Input frequency tolerance	± 5%	± 5%
Power factor	≥ 0,65	≥ 0,85
Input protection	Fuse-switch	Fuse-switch

Output

DC voltage	24 / 48 / 110 / 120 VDC	24 / 48 / 110 / 120 / 220 VDC
Output voltage regulation	± 1% (0 to 100% of the load)	± 1% (0 to 100% of the load)
Voltage ripple	2% RMS	2% RMS
Current limitation	100% of nominal rating in floating/equalization mode	
Boost mode current limitation	0,1 C10 (Lead Acid battery) / 0,2 C5 (Nickel Cadmium battery)	

Battery

Types	Sealed Lead Acid, Vented Lead Acid, Nickel Cadmium
Autonomies	From 15 min to several hours

General Data

AC/DC efficiency	up to 0,92
Operating temperature	0 °C to 40 °C
Storage temperature	-20 °C to +70 °C
Relative humidity	< 95%
Operating altitude	1000m (without derating)
Cooling	Fan-assisted ventilation
External protection	IP20 to IP41
Noise	< 60 dB
Lock	Steel locked door
Painting	Grey RAL 7035 textured semi-gloss

Standards

Compliance	IEC 950, 439, 146, 529, 726...
CE directives	73 / 23 / EEC - LVD and 89 / 336 / EEC - EMC

Options

Charger	Alarm on additional voltage-free contact, DC earth fault alarm, battery voltage control, special supply, parallel configuration, input circuit breaker, special painting...
Battery	Low voltage disconnect contactor, floating voltage compensation according to temperature, manual boost mode for vented batteries, fuse protection...

Mechanical Data

Height (mm)	890
Width (mm)	530
Depth (mm)	390

Battery cabinet (Width 530mm; Depth 390mm)

Cabinet type 0: height (mm)	390
Cabinet type 1: height (mm)	890