



CHLORIDE INDUSTRIAL SYSTEMS

A CHLORIDE POWER PROTECTION COMPANY

RECTIFIER - CHARGER up to 8 kW

- Safe and tailored power solutions for industry processes.
- Ideal for industrial applications requiring Direct Current power needs lower or equal to 8kW.
- Particularly adapted to process controls, energy production and distribution applications, telecommunications.
- A high quality industrial battery charger, at a low cost, and benefiting from Chloride's long experience in power protection.
- Compatible with all types of batteries.
- A highly reliable product.
- Small size.
- A high level of flexibility for your specific needs.
- Can be configured in parallel.
- Internally protected against overloads.
- For long autonomy requirements, up to 3 battery cabinets are available, the same dimensions as the charger cabinet.

EXCEL CF

- DC voltage from 24VDC to 220VDC.
- Thyristor technology renowned for its reliability.
- Digital display for measures reading.
- Alarms and operating status displayed on the LED indicators.
- DC distribution with up to 5 fuses (10x38) or circuit breakers.
- Several operating modes available : floating, automatic charge, boost charge (for vented batteries)
- Wall or floor mounted cabinet.
- Stackable charger cabinet ensures space optimization.



digital display



ELECTRICAL SPECIFICATIONS		EXCEL CF SINGLE PHASE INPUT	EXCEL CF 3-PHASE INPUT
INPUT			
AC input voltage :	230VAC single phase	400 VAC three phases	
Input voltage tolerance :	-10% / +15%	-10% / +15%	
Input frequency :	50 / 60 Hz	50 / 60 Hz	
Input frequency tolerance :	± 5%	± 5%	
Power factor :	0,65	0,85	
Input protection :	fuse-switch	fuse-switch	
OUTPUT			
DC output voltage :	24VDC, 48VDC, 110VDC, 120VDC	24VDC, 48VDC, 110VDC, 120VDC, 220VDC	
Output voltage regulation :	±1% (0 to 100% of the load)	±1% (0 to 100% of the load)	
DC regulation :	2% RMS	2% RMS	
Current limitation :	100% of nominal rating in AUTO mode	100% of nominal rating in AUTO mode	
Boost mode current limitation :	0,1 C ₁₀ (Lead Acid) / 0,2 C ₅ (Nickel Cadmium)	0,1 C ₁₀ (Lead Acid) / 0,2 C ₅ (Nickel Cadmium)	
INTERNAL PROTECTION			
Internal electronics protected by fast fuse			
RATINGS	Output DC voltage	Output DC current	Weight* Input Power (kVA)
	24V	25	56 1,3
	24V	40	69 1,8
	24V	60	80 3
	24V	80	91 4,3
	48V	25	64 2,6
	48V	40	87 4,3
	48V	60	97 6,1
	110V	16	83 4
	110V	25	94 5,8
	120V	16	84 4,4
	120V	25	95 6,4
			Output DC voltage
			Output DC current
			Weight* Input Power (kVA)
			24V 40 62 1,7
			24V 60 77 2,4
			24V 80 90 3,2
			24V 100 94 4
			24V 125 99 5,4
			48V 25 70 2
			48V 40 89 3,1
			48V 60 92 4,5
			48V 80 95 5,8
			48V 100 103 7,3
			48V 125 110 9,9
			110V 16 88 3,2
			110V 25 93 4,8
			110V 40 104 7,6
			110V 60 111 10,2
			120V 16 89 3,5
			120V 25 95 5,1
			120V 40 105 8,4
			120V 60 112 11,2
			220V 16 89 5,4
			220V 25 100 8,3
			220V 40 106 13,5

*Weight for information only - additional options not included

MECHANICAL SPECIFICATIONS

Presentation : Sheet steel cubicle wall or floor mounted
External protection : from IP 30 to IP 41
Lock : Steel locked door
Standard colour : Grey RAL 7035 textured semi-gloss
Weight : See table above
Dimensions (H x L x P) : 890mm x 530mm x 390mm

LOCAL CONTROL AND DISPLAY

ON / OFF control : ON / OFF switch on front face
Local measurements : digital display
Local information : 6 LED indicators

STANDARDS

Compliance (main standards) : IEC 950, 439, I46, 529, 726...
CE Marking : Directives 73 / 23 / EEC - LVD
and 89 / 336 / EEC - EMC

ENVIRONMENT SPECIFICATIONS

Operating temperature : 0 to 40°C
Storage temperature : -20°C to +70°C
Relative humidity : < 95%
Operating altitude : 1000 m (without derating)
Noise : < 60 dB
Cooling : fan-assisted

CHARGER OPTIONS :	EXCEL CF
Dual input voltages 230 VAC / 400 VAC - 3 phases :	✓
DC Earth fault alarm :	✓
Blocking diode (for several EXCEL CF operating in parallel) :	✓
5 dropping diodes max for 16A and 25 A rating only :	✓
Anti-condensation heater :	✓
Input circuit breaker :	✓
Low-voltage alarm :	✓
1% filter in 48VDC for telecom application :	✓
Circuit breaker or fuse distribution board (5 maximum) :	✓
Specific input voltage (from 110 to 660VAC) :	✓
Specific cubicle protection IP 31 - 41 (height of cabinet = 955mm) :	✓
Special painting :	✓

BATTERY-RELATED OPTIONS :	EXCEL CF
Battery low voltage cut-off device :	✓
Battery fuses :	✓
Sealed batteries filter : sinusoidal current limited to 0,1C ₁₀ :	✓
1 to 3 additional battery cabinet for specific autonomy needs :	✓
Automatic float / charge mode :	✓
Manual boost mode for vented batteries :	✓
Floating voltage compensation according to temperature :	✓
Specific adjustments :	✓