Chloride FP-20R

Power unit - Charger
100 to 4400W - single-phase input

The Chloride FP-20R rectifier - charger is available as DC power pack to ensure continuity of service for DC current critical industrial loads and also as DC power supply, or charger for external battery.

The Chloride FP range is designed to meet industrial requirements.
Each product in the range offers an extensive choice of ratings and a wide selection of industrialised options enabling prompt product configuration and delivery.

DC power systems adapted to industrial processes

Chloride FP-20R is available from 6A to 180 A depending of the output voltage from 12Vdc to 220Vdc with a single-phase input.

The high-frequency switched-mode technology guarantees a high performance level in a compact design.

It is equipped with a microprocessor control offering exceptional stability, to meet a variety of application-related requirements.

Chloride FP-20R corresponds to the products formerly known as Poweris CK, Alpha CK and CR Alpha manufactured by AEES.

Applications

Chloride FP-20R can be used to back up many industrial applications, such as:

- Monitoring circuits
- Automatic controllers
- Relay circuitry (coils)
- Motorisation circuits
- etc..

Advantages

- **Compact design:** The battery (if present) can be integrated in the cabinet or externally fitted on-site.
- **High adaptability:** an extensive choice of output voltages and a large number of options are available to specifically meet your needs.
- **Easier diagnostics:** The supervisor offers a quick reading of the system status via its LEDs, integrated display and its signalling contacts.
- **Integrated battery test:** An automatic test system checks that the battery (if present) is capable of powering your applications and checks the safety fuse status. The test is run automatically in a cyclical fashion. It is particularly useful if your battery is only used after long periods of being on standby.

Main specifications

- **Compact design:** Integrated power factor corrector reducing disturbances on the up-stream mains.
- **High adaptability:** Low voltage ripple rate to optimise battery service life.
- **Fuse or breaker protection of** input, output and battery line.
- **Protection index up to IP55** for extreme environmental conditions.
- **Flexible design:** Parallel placement of internal modules (up to 3) making it possible to increase the power available or guarantee redundancy N+1.

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Chloride FP-20R

Power unit - Charger

Reference	Output voltage (Vdc)	Charger rating (A)	Battery capacity (Ah)
Standard range - in CK cabinet			
FP-20R 12 30	12	30	24 to 120
FP-20R 12 60	12	60	
FP-20R 24 30	24	30	
FP-20R 24 60	24	60	
FP-20R 48 15	48	15	24 to 60
FP-20R 48 30	48	30	
FP-20R 110 06	110	6	7 to 14
FP-20R 110 12	110	12	
FP-20R 120 06	120	6	
FP-20R 120 12	120	12	
FP-20R 220 06	220	6	7
Range available on request - in CR cabinet			
FP-20R 24 120	24	120	200 to 600
FP-20R 24 180	24	180	300 to 600
FP-20R 48 60	48	60	100 to 300
FP-20R 48 90	48	90	
FP-20R 110 24	110	24	38 to 150
FP-20R 110 36	110	36	60 to 150
FP-20R 120 24	120	24	38 to 150
FP-20R 120 36	120	36	60 to 150
FP-20R 220 06	220	6	24 to 38
FP-20R 220 12	220	12	38 to 60
FP-20R 220 18	220	18	

Technical specifications

Charger input	Single-phase 230Vac power supply voltage -20% +15%
	Inrush current <6In
	Power factor >0.95
	Frequency range from 47Hz to 63Hz
Output	Rated voltage ±15% see range opposite
	Static control ±1%
	Disconnected battery ripple voltage <0.1% RMS
Battery	Recombination lead
Supervision	Error display
	LED test
	DC voltage monitoring
	Battery charge current limitation
	Alarm relay to contacts
Communication	Quantity display
	Output voltage, operating current, battery current
General Data	External protection index IP21 CK / IP20 CR
	83% to 91% rectifier efficiency
	Operating temperature from 0°C to 40°C
	Storage temperature from -5°C to 45°C
	Relative humidity <95% without condensation at 20°C
	Operating altitude from 0 to 1000m without derating
	Cooling by natural convection
	Noise <60dB
	Input / output insulation: 2000Vac / 1 minute
	Standard colour RAL7035
	CK cabinet dimensions: H 850 x W 500 x D 420mm

Standard options

Charger / Use	400	Single-phase 400Vac power supply voltage
	Q	Position contact on AC input circuit breaker
	D	Coupling or parallel placement diode
	I	DC earth fault monitoring
	F/ J/ H	Switchboard with 1 to 6 outputs (fuse, circuit breaker or circuit breaker with contact)
Battery	FB/ JB/ HB	Battery protection (fuse, circuit breaker or circuit breaker with contact)
	A	Battery cut-off at end of discharge
	B	Battery test
	C	C1300 automatic control system - programmable between 30min and 24hrs
	T	Temperature probe for battery charge compensation
Communication	RS	Modbus RS485

Options available on request

Battery	Other types of open or recombination Lead of Nickel-Cadmium battery
Mechanical	CR cabinet dimensions: H 1200 or 1800 x W 800 x D 600mm - Height to be confirmed based on options
	External protection index IP21, 23, 40, 41, 43, 55
	Other RAL colour
	Anti-condensation resistor
	Internal lighting
	Lifting rings

Conformity	Compliance with standards
EMC Directive 2004/108/EC	IEC/NF EN 61000-6-2 IEC/NF EN 61000-6-4
Low Voltage Directive LVD 2006/95/EC	IEC 60146 - IEC 60439-1 - NFC 58-311

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