Kraftelektronik AB

Switch-mode rectifier type PCR with built-in monitoring

Charging rectifier type PCR with built-in monitoring for uninterrupted DC supply in systems requiring high reliability. The monitoring panel also comes in 19" design for cubicle installations.

- **Low weight, compact and silent** through soft-switch technique. Zero-voltage switching yields higher reliability through reduced component stress.
- **Better economy and higher availability** through continuous battery monitoring. Alarm on battery interruption or asymmetry. Temperature controlled float charging voltage. Complete monitoring functions even with two battery systems in parallel operation.
- **High reliability** - independent circuits for charging and monitoring.
- **Easily accessible information** on system status through symbol diagram indications and message display.
- **Easy installation** – spacious connection compartment.

ISO 9001 certificated

KRAFT

CE

Charging rectifier PCR

Rectifier
- Sinusoidal input current (PCR1)
- Softswitch
- All adjustments available from frontpanel (no tools required)
- Safe (separate connection compartment)
- Separated measuring circuits (regulating / monitoring)
- Long life design
- Low weight
- Low audible noise

Features
- Automatic battery test
- Temperature regulated float charging voltage
- Two charging rates
- Equalizing charging blocking
- Overvoltage protection (OVP)
- Active load sharing
- Single input selects stand-alone/ parallel operation

Monitoring/Alarm
Information
- Digital current/voltage read-outs
- Active alarms
- Earth fault resistance
- Mid point voltage
- Battery temperature

Alarms
- Low voltage, two levels
- High voltage, two levels
- Earth fault
- Battery fault
- Battery temperature
- Rectifier failure
- Mains supply failure
- Fuse alarm (distribution)
- Charging failure
- System overload
- Four independent alarm outputs
- Individual alarm delays
- Alarm output testing facility

Options
Monitoring panel 19" 3HE
Different input voltage
Enhanced class of enclosure, IP43
Tropical design
Battery temperature sensor

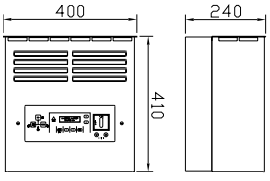
Technical data
Input voltage range:
PCR1: 195-264V 45-65Hz
PCR3: 342-457V 45-65Hz
Class of enclosure:
IP21 according to SS EN 60529
Ambient temperature: 0-40°C
Immunity: SS EN 50082-2
Emission: SS EN 50081-1
Harmonics: SS EN 61000-3-2 (PCR1)
Safety: SS EN 50178
Voltage regulation: ±0.5%
Current regulation: ±1%
Voltage measuring, inaccuracy: <0.2%
Ripple voltage (RMS): <0.2%
Efficiency, typical: >90%
Power factor:
>0.99 (nominal load, PCR1)
>0.97 (fundamental, PCR3)
Cooling:
Natural (PCR1)
Fan ventilator (PCR3)
Connection terminals:
Alarm/monitoring 2.5mm^2
Others, see tables below
Colour: RAL 7035

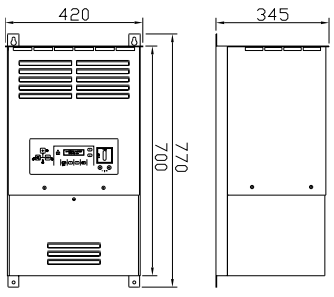
PCR 1

DC data		Connection data 230VAC					
Rated voltage (V)	Rated current (A)	Max mains power (W)	Max mains current (A)	External fuse (A)	Mains terminal (mm^2)	Output terminal (mm^2)	Weight (kg)
24	10	330	1,7	6	4	10	14
	20	660	3,4	6	4	35	14
	35	1160	6,0	10	4	35	14
48	10	660	3,4	6	4	10	14
	20	1330	6,8	10	4	35	14
	35	2320	11,9	16	4	35	20
110	5	690	3,5	6	4	10	14
	10	1380	7,1	10	4	10	14
	15	2080	10,6	16	4	35	20
	20	2760	14,1	16	4	35	20
125	5	770	3,1	6	4	10	14
	10	1530	7,9	10	4	10	14
	15	2300	11,8	16	4	35	20
	18	2970	15,7	16	4	35	20
220	5	1430	7,3	10	4	10	14
	10	2860	14,7	16	4	10	20

PCR 3

DC data		Connection data 3x400VAC					
Rated voltage (V)	Rated current (A)	Max mains power (W)	Max mains current (A)	External fuse (A)	Mains terminal (mm^2)	Output terminal (mm^2)	Weight (kg)
24	100	6300	9	16	10	10-70	47
48	60	7620	11	16	10	10-70	47
	100	11570	17	20	10	10-70	52
110	30	7650	11	16	10	10-70	47
	50	11780	17	20	10	10-70	52
	100	21500	31	35	10	10-70	52
125	30	8310	12	16	10	10-70	47
	75	18300	27	35	10	10-70	52
220	25	12150	18	25	10	10-70	47
	50	22200	32	35	10	10-70	52
440	7	6300	10	16	10	0,75-50	17
	10	9430	14	16	10	10-70	47
	15	13800	20	25	10	10-70	52
	25	21400	31	35	10	10-70	52
500	10	10950	16	20	10	10-70	52
	20	20450	30	35	10	10-70	52





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CE **ISO 9001 certificated**

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