

---

## 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 softswitch 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.

---

# Switch-mode rectifier type PCR with built-in monitoring

## 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

---

# Switch-mode rectifier type PCR with built-in monitoring

## Options

---

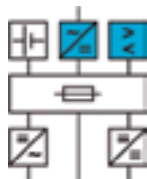
Monitoring panel 19" 3HE  
Different input voltage  
Enhanced class of enclosure, IP43  
Tropical design  
Battery temperature sensor

## Technical data

---

### Input voltage range:

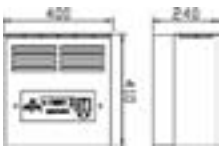
PCR1:	195-264V 45-65Hz
PCR3:	342-457V 45-65Hz
Class of enclosure:	IP21 according to SS EN 60529
Ambient temperature:	0-40°C
Immunity:	SS EN 50082-2
Emission:	SS EN 50081-1
Harmonics:	SS EN 61000-3-2 (PCR1)
Safety:	SS EN 50178
Voltage regulation:	±0.5%
Current regulation:	±1 %
Voltage measuring, inaccuracy:	<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 <sup>2</sup>
Others, see tables below Colour:	RAL 7035



# Switch-mode rectifier type PCR with built-in monitoring

## PCR 1

DC data	Connection data 230VAC						
Rated voltage	Rated current	Max mains power	Max mains current	External fuse	Mains terminal	Output terminal	Weight
(V)	(A)	(W)	(A)	(A)	(mm <sup>2</sup> )	(mm <sup>2</sup> )	(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	Rated current	Max mains power	Max mains current	External fuse	Mains terminal	Output terminal	Weight
(V)	(A)	(W)	(A)	(A)	(mm <sup>2</sup> )	(mm <sup>2</sup> )	(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

