DC - system type PC10
24/48/110/220V_Dc

PC10 is a complete system for uninterruptable supply of DC voltage for industrial switchgear, control equipment, process control, etc. where high demands on safe operation is required.

Plug-in rectifier modules
Provides flexibility by adjusting the output power, easy maintenance by hot swap and high availability with parallel modules.

Safe operation and high availability
We support you with commissioning and service as well as education in handling and maintenance.

Compact design
Monitoring unit, rectifier, distribution and batteries up to 110V/105Ah in the same enclosure.

System monitoring
Monitoring of the batteries, rectifier and distribution, status and alarms distinctly on display, settings via clear menus for easy handling.

Battery status
Battery circuit test and symmetry monitoring provides good conditions for early detection of errors in the battery. Battery temperature is monitored and adjusts the float-charging voltage automatically.

Complete documentation
Makes construction and maintenance efficiently and can be delivered in electronic format.
DC-System type PC10

General
PC10 is a complete system for uninterruptable supply of DC voltage for industrialwitchgear, control equipment, process control, etc. where high demands on safe operation is required. Complete with rectifiers, batteries, battery fuse box, distribution boards, monitoring and documentation.

Enclosure
Type: Floor cabinet with 19° framework
Cable inlet: from bottom or above
Height: 2051/2 mm
Width: 740/840 mm
Depth: 654/845 mm
Color: RAL 7035 light grey
Class of enclosure: IP21
Ventilation: Temperature controlled fans in rectifier modules, otherwise natural

Environment
Ambient temperature: Operation, 0 till +40 °C
Humidity: < 90 % RH, non-condensed
Altitude a.s.l.: < 2000 m

Input AC (for rectifier)
Input voltage: 230VAC 1-phase
Frequency: 50/60 Hz
Power factor: > 0.99 at 230VAC, full load
Connection: 6 mm² screw terminal, per rectifier module
Other: See table 1 & 2

Output DC
Output voltage, nom.: 24/48/110/220VDC
Connection: 10 mm², disconnect terminal
Voltage regulation: < 0.5 % of nominal output voltage
< 1% within 3 seconds, 0-100/100
10 % load change
Current regulation: < 1 % of rated current
Current limit range: 0 – 100 % of rated current
Ripple voltage: < 0.1 %rms
Other: See table 1 & 2

Battery fuse box
Configuration: Blade fuses, 4-7 pole separated groups

Distribution module type DM199
Number of modules: 1 – 7 pcs
Fuse type: Diazed type DII/DIII or MCB
Groups per module: 9 pcs (DII, MCB), 6 pcs (DIII)
Monitoring: Bipolar zero voltage
Indication: Red/green LED per way

Capacity test
Load: Maximum 50 A
Connection: 35 mm² screw terminal or CEE-connector type UIS 232-6

Monitoring unit type PCM2
Monitoring of the complete DC system.
Clear graphical display for showing and setting of alarms, operating data, etc.
Remote alarm via 4 freely configurable relays.

Options
Remote alarm: Relay 5-8
Inverter (0.5, 1 or 2 kVA),
AC-distribution,
DC/DC-converter
Double systems with input switches,
DC/DC-converter
Monitoring of the complete DC system.

Battery
Internally: Valve regulated, up to 110VDC 105Ah
Externally: Any types on battery stand

Standards
Safety: EN 50178
EMC, immunity: EN 61000-6-2
EMC, emission: EN 61000-6-4
Battery installations: EN 50272-2

Other:
Ripple voltage:
Current limit range: 0 – 100 % of rated current
Current regulation: < 1 % of rated current
Voltage regulation:
Connection:
Power factor:
Frequency:
Input voltage:
Input AC (for rectifier)

The information in this document may be changed without notice.