

5.2 PS425

5.2.1 Technical Data



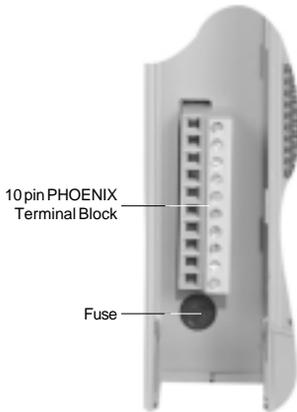
Module ID	PS425
Model Number	2PS425.9
Description	2010 Power Supply Module, 24 VDC, 100 W
C-UL-US Listed	Yes
Base Plate Module	BP200, BP201, BP210
Input Voltage	
Minimum	18 VDC
Nominal	24 VDC
Maximum	30 VDC
External Backup Capacitors with Single Phase Bridge with Three Phase Bridge	20000 µF 12000 µF
Output Power	100 W
Current Requirements	Max. 6.5 A
Protective Measures	
Fuse	10 A slow-blow / 250 V
Thermal Overload Protection	Monitors Housing Temperature
Current Limitation	Monitors output power
Status Display	LEDs
READY Relay	N.O.
Switching Voltage	Nom. 24 VDC / 230 VAC
Max. Load on Contact	2 A
Transient Voltage	2.5kV
Protection	External
Dimensions (H, W, D) [mm]	285, 40, 185

5.2.2 Status LEDs

- DC** The secondary power supplied is OK.
- OL** This LED (OVERLOAD) lights if the current limitation is activated. Possible causes are:
- The temperature within the housing is too high.
 - More power is required by the PCCs than the power supply can deliver (Maximum output power is exceeded).



5.2.3 Connection



10 Pin Terminal Block

	Pin	Termination
1	1	1 Normally open 2 READY contact
2	2	
3	3	
4	4	
5	5	
6	6	
7	7	Shield ground
8	8	+24V
9	9	GND
10	10	Shield ground

The **READY Contact** is closed if the power supply is operating properly. If the power supply is overloaded the contact is opened. This allows an external monitor power supply monitor to be installed.

Fuse

The power supply is equipped with a **fuse** on the primary side.

Glass Fuse 5 * 20 mm: 10 A slow blow / 250 V



The supply voltage to the power supply must be removed before changing the fuse.

Procedure to change a fuse:

- 1) Remove supply voltage to power supply
- 2) Discharge electrostatic by touching the mounting rail or ground connection (not in the power supply!).
- 3) Open module door
- 4) Loosen fuse holder using a screwdriver
- 5) Remove fuse holder
- 6) Remove old fuse from fuse holder
- 7) Place new fuse in the fuse holder
- 8) Place fuse holder into the power supply module
- 9) Tighten fuse holder using a screwdriver in the direction of the arrow
- 10) Close module door
- 11) Replace supply voltage to power supply

5.2.4 Overload Protection

The following are monitored during operation:

- The temperature inside the power supply housing (thermal overload protection)
- Power supplied to the PCC (current limitation)

If either the thermal overload protection or current limitation is active, ...

- ... a power breakdown of the entire PCC system occurs
- ... the **OL (OVERLOAD)** LED is lit
- ... the **READY** contact is opened

Only when the power consumption drops below the maximum output power of the power supply again or the temperature drops into the range permitted within the power supply housing is the current supply reactivated.