

Power Supply Redundancy Options

- Add 1 power supply of the same type to achieve n+1 redundancy when using the frames RM420-061, RM420-063, RM420-081!

Multiply the necessary number of power supplies by 2 when using dual mains power inlet frames RM420-064, RM420-062, RM420-086 to achieve full n+n redundancy!

Power Supply FAQs

- What is the difference between RM420-084 and RM420-082?

The major difference is the Wide AC Voltage Input Range and the Active Power Factor Correction of the new RM420-084 compared to the old RM420-082. The output power is the same, 75W.

- What is the difference between RM420-083 and RM420-085?

The major difference is the Wide AC Voltage Input Range and the Active Power Factor Correction of the new RM420-083 compared to the old RM420-085. The output power is the same, 75W.

- What is Wide AC Voltage Input Range?

The old power supplies RM420-082/RM420-085 have a input range between 200VAC and 250VAC, the new types RM420-084/RM420-083 have a input range between 94VAC and 253VAC. The input voltage differs in the different countries of the world.

- What is Power Factor Correction or PFC?

In old fashioned switching power supplies like the RM420-082 and RM420-085 the current consumption is not sinusoidal, this may disturb the whole power distribution network. The power factor correction, PFC, is also necessary to comply with the EN61000-3-2.

- Is it possible to mix old RM420-085 and new RM420-083 within one DSP Frame?

NO! Please don't try it! They use the same connector but the Load Share Signal is not compatible between the RM420-085 and the RM420-083.

- Is it possible to mix old RM420-082 and new RM420-084 within one DSP Frame or Power Supply Frame?

NO! Please don't try it! They use the same connector but the Load Share Signal is not compatible between the RM420-082 and the RM420-084.

- Is it possible to use for example 2 pieces RM420-085 (old 5V) and 2 pieces RM420-084 (new 24V) within one DSP Frame?

Yes, that's possible because the 24V and the 5V power supplies work completely independent.

- Is it possible to use for example 2 pieces RM420-083 (new 5V) and 2 pieces RM420-082 (old 24V) within one DSP Frame?

Yes, that's possible because the 24V and the 5V power supplies work completely independent.

Please see the "RM4200D Installation Guide", chapter "Power supply" for more information.

Note:

If you unplug and plug power supply modules for redundancy tests, take care that the modules need to be disconnected for at least one minute. This period is needed for discharging to avoid damages.