

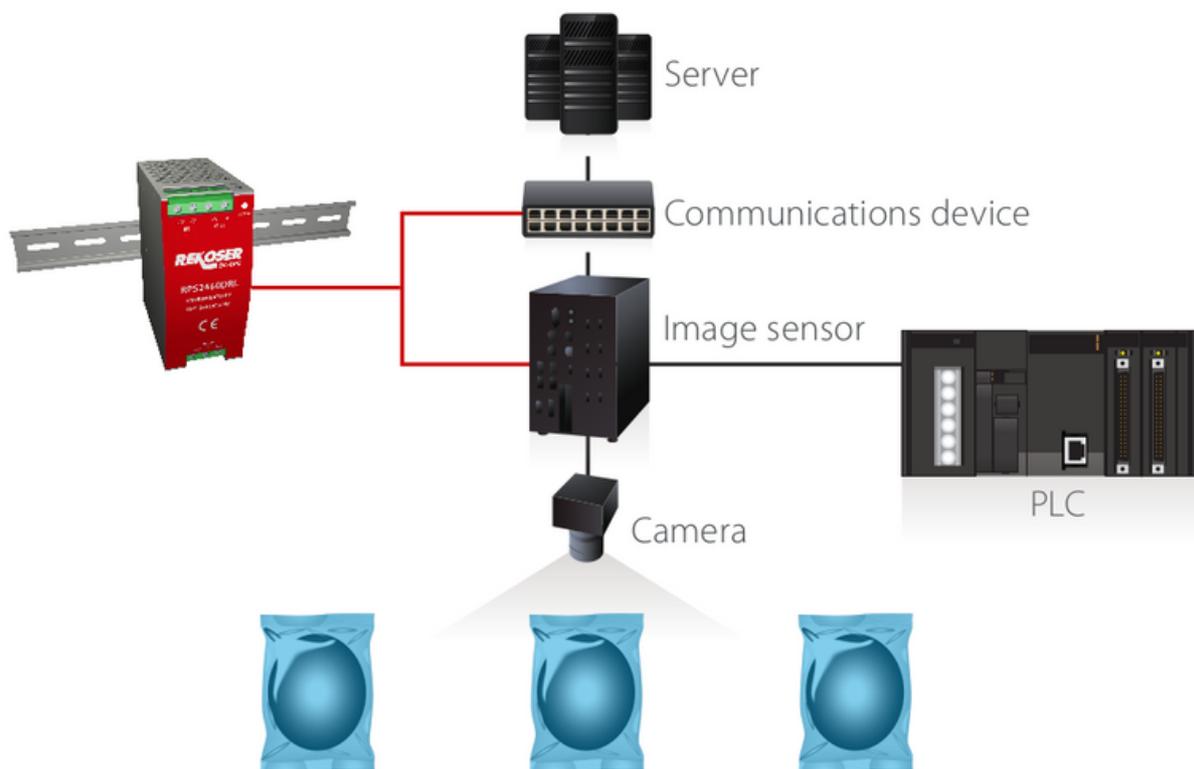
# USE CASE: RPS

## COMPACT DC-DC UPS 24VDC LITHIUM DIN RAIL

### Customer Problem:

#### Image data lost due to momentary power interruption

Image data is saved through a network to a host system to ensure traceability during printing inspection processes in a food factory. However, a momentary power interruption, due to a lightning strike, reset the power supply to the image sensor and communications device. This prevented the image data from being saved to the host system.



### Solution with RPS

#### Traceability ensured with the RPS

The RPS was used to back up the power supplies to the image sensor and communications device. This allowed the system to continue operating until the data was saved in the host system, which provided greater traceability reliability.

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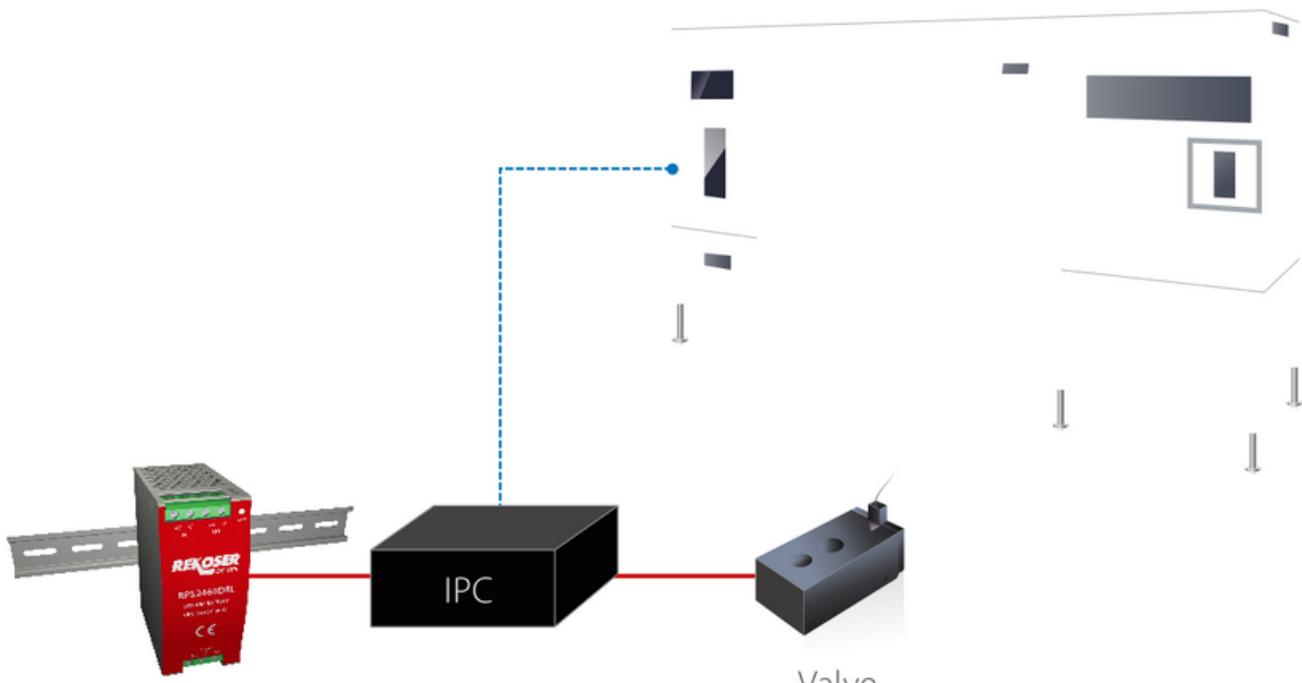
# USE CASE: RPS

## COMPACT DC-DC UPS 24VDC LITHIUM DIN RAIL

### Customer Problem:

#### Loss of valve control due to power interruption caused by lightning strike

A lightning strike during a summer storm caused a power interruption at a factory. Due to the power interruption, it became impossible to control the valve that maintains sterile conditions for pharmaceutical manufacturing equipment. During recovery from the power interruption, the valve opened before the clean fans started their normal operation. Sterile conditions were lost, and production had to be stopped for a long time until the sterile conditions could be restored.



### Solution with RPS

#### Control continued before and after a power interruption with the RPS

The RPS was used to back up an IPC and a power supply to the valve. A signal from the RPS enables the IPC to communicate with and control the open/close of the valve during instantaneous voltage drop or power interruptions.

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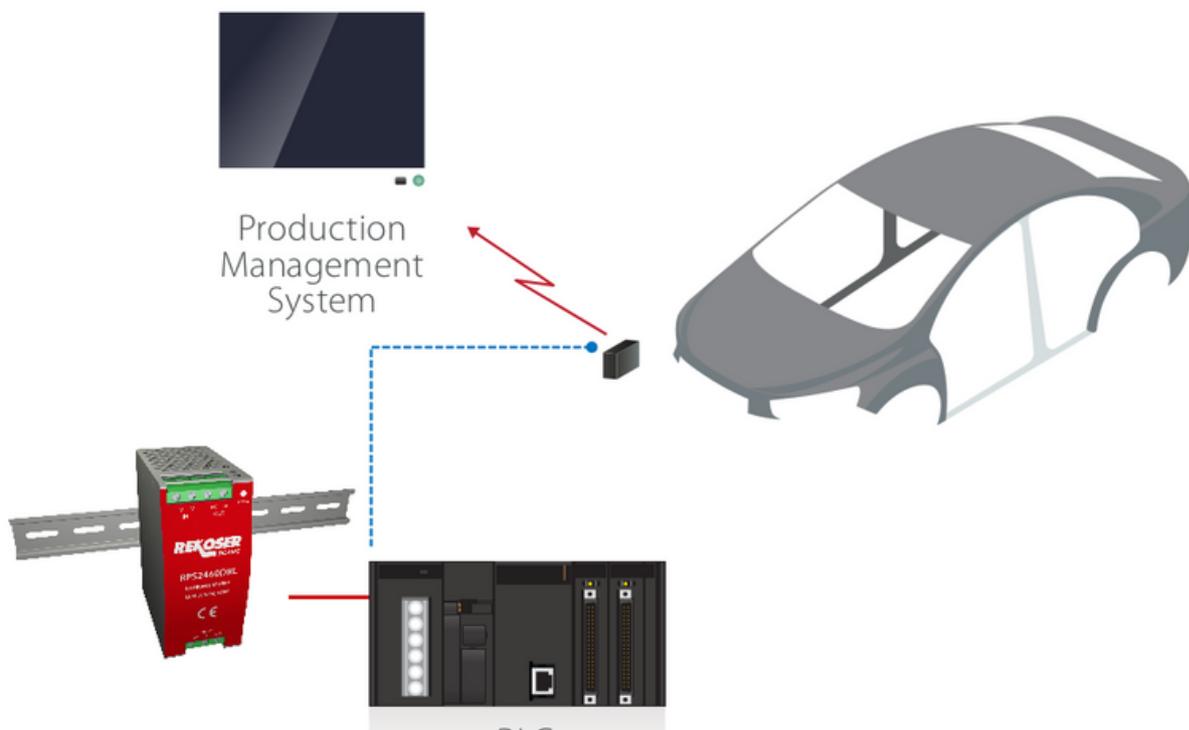
# USE CASE: RPS

## COMPACT DC-DC UPS 24VDC LITHIUM DIN RAIL

### Customer Problem:

#### Line stop due to lost process data

Problems with power lines caused instantaneous voltage drops in a factory, This reset the power supply to the Wireless Communications Unit that connects the PLC to the production management system. This interrupted communications and caused the production management system to miss data, which resulted in line stops until the data could be recovered.



### Solution with RPS

#### Interruptions in communications prevented with the RPS

The RPS was used to back up the power supply to the Wireless Communications Unit and PLC. This enables process data to be reliably communicated to the production management system, and reduced the risk of line stops.

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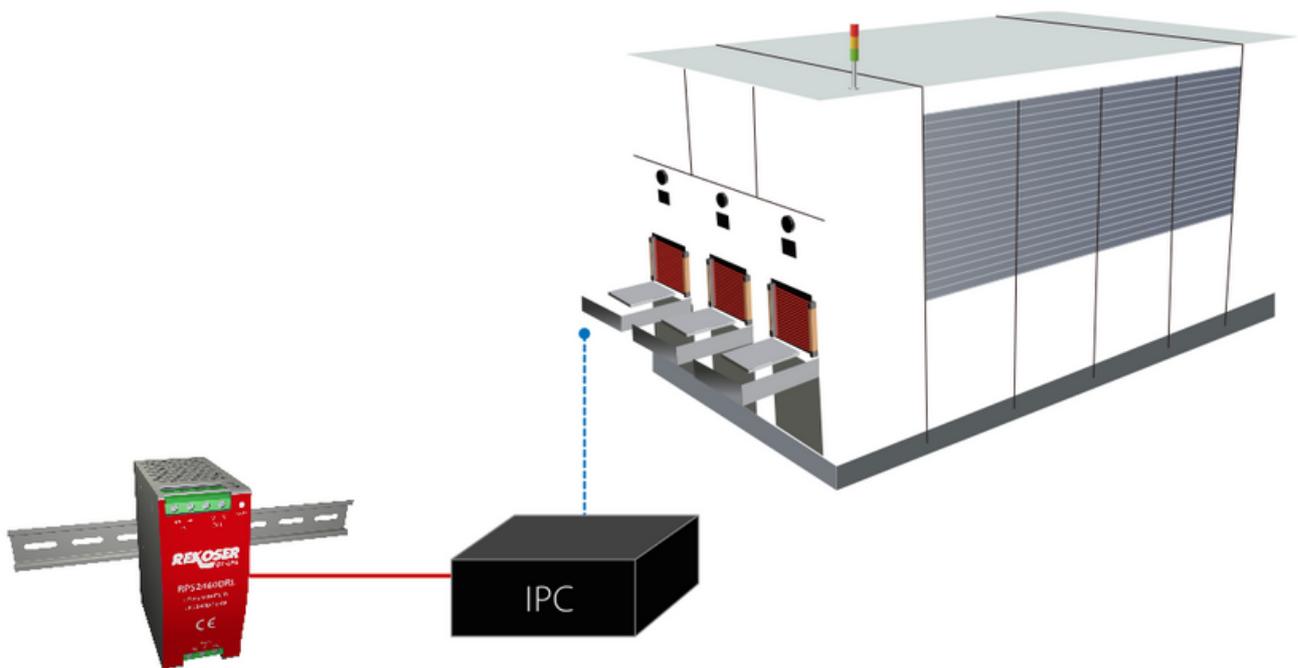
# USE CASE: RPS

## COMPACT DC-DC UPS 24VDC LITHIUM DIN RAIL

### Customer Problem:

#### Loss of PC data due to operating errors

Maintenance technicians in a semiconductor manufacturing plant made procedural errors while stopping a device during equipment maintenance. This caused the main power supply to suddenly turn OFF. The power supply to the PC used for SECS communications was also turned OFF without shutting down the PC normally. This caused important data to be lost, and the factory suffered a long production stop.



### Solution with RPS

#### RPS used to enable IPC shutdown

The RPS was used to back up the power supply to the PC used for communications, and then the Simple Shutdown Software was installed on that PC. This prevented data losses during unexpected power interruptions by enabling the PC to shut down normally when power is lost. Also, the combination of a compact embedded PC with a compact UPS enabled device downsizing.

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