

PANEL POWER PDP

1. Description

Main power distribution panel that feeds all electrical components of the conveyor system.

2. Functions

- Provides power to motors, sensors, and control panels.
- Monitors power status of subsystems.

3. I/O and Signals

Signal Name	Type	Description	Panel
POWER_OK	DI	Power good status	PANEL_POWER_PDP
POWER_FAIL	DO	Power failure alarm	PANEL_POWER_PDP

4. Interlocks & Safety

- Power failure leads to a system shutdown.
- Power OK signal required for system startup.

5. Dependencies

- Supplies power to all panels and components.

6. Alarms

Alarm ID	Condition	Message
A_PWR_01	Power loss	"Power Loss"

7. HMI / Operator Interaction

- Power status displayed on HMI.