

Powering Industrial Automation Safely and Efficiently

Industrial automation is evolving—becoming faster, smaller, and more demanding. Modern designs must handle dynamic loads, fit into tighter spaces, and operate reliably in harsh and regulated environments. TRACO POWER solutions address transient loads, thermal constraints, environmental stress, and global compliance requirements to meet these challenges head-on, ensuring stable, efficient, and compliant system performance.

Motor Applications & High Dynamic Loads

Problem: Servo drives, robots, and motor starters generate high peak currents and feedback voltages in the DC bus.

Solution: Peak power capability and back power immunity handle these surges and protect against energy fed back into the system.

Benefit: Maintain stable operation, reduce risk of shutdowns, and prevent equipment failure in high-motion applications.



Higher Power Density in Compact Cabinets

Problem: Control cabinets are shrinking while the number of modules and functions continues to grow.

Solution: High-power density designs deliver more usable power in less space while reducing heat and ventilation requirements.

Benefit: Enable compact, efficient setups for PLC, I/O, safety, and motion control modules without compromising performance.



Harsh Industrial Environments

Problem: Equipment is exposed to vibration, moisture, dust, and extreme temperatures.

Solution: Conformal coating and continuous operation down to -40°C ensure long-term reliability.

Benefit: Power supplies perform consistently in real-world industrial conditions, reducing maintenance and downtime.



Hazardous and Explosive Conditions

Problem: Industrial sites like chemical, oil & gas, and food processing can destabilize power systems through transient peaks and regenerative energy.

Solution: Peak power capability, back power immunity, and tight output regulation.

Benefit: Ensures safe, reliable operation even in high-risk environments.



Safety & Standards Compliance

Problem: Increasingly strict global and industrial certification requirements.

Solution: UL 61010 & UL 62368-approved designs guarantee safe and compliant operation.

Benefit: Simplified system approvals, reduced certification risk, easier international deployment.

