

industry: **various**

author:



WATLOW
Powered by Possibility

Choosing a Power Controller:

Team up with **Watlow**® for a consultative approach



Introduction:

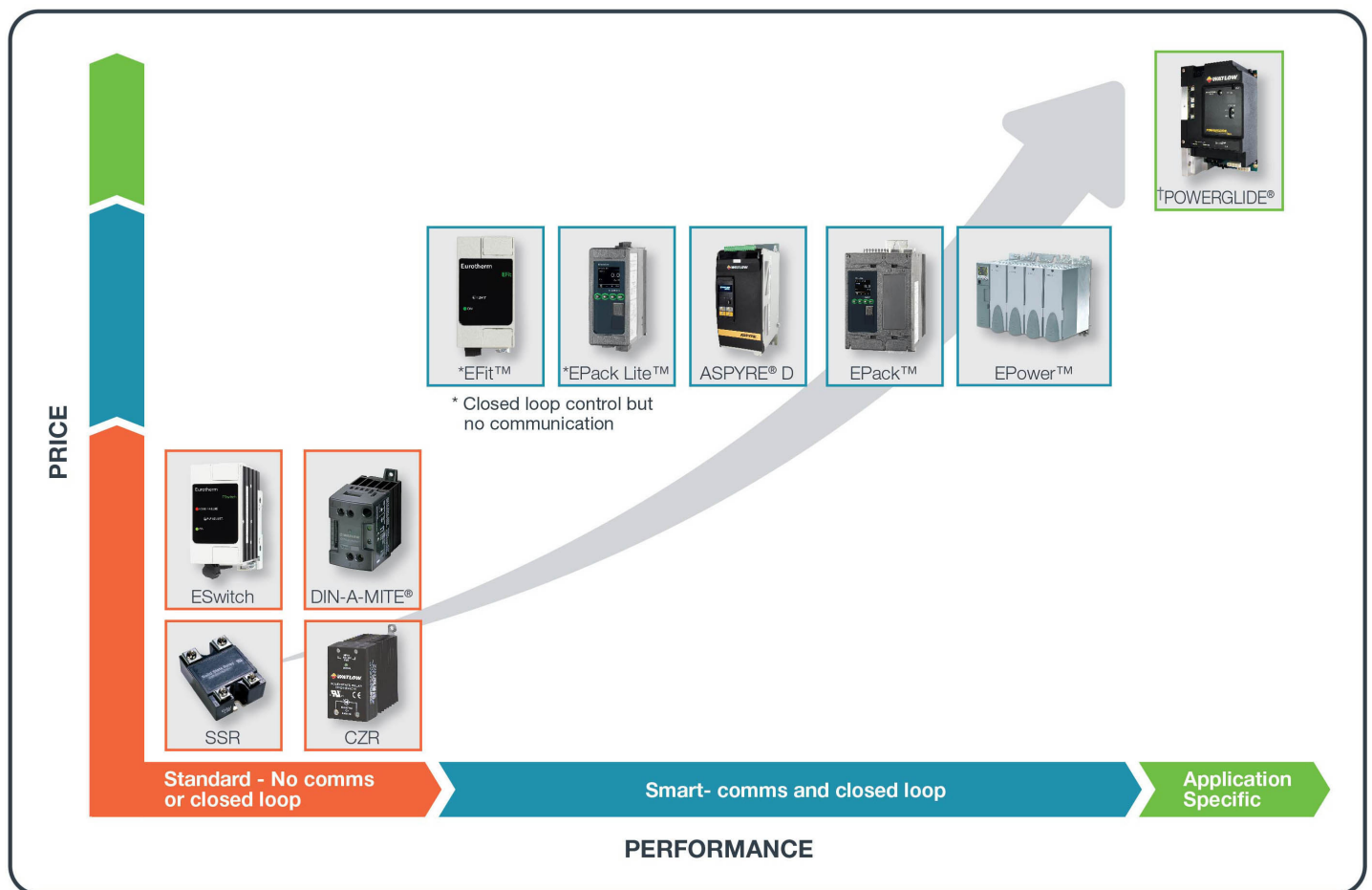
A critical choice in the design of any industrial thermal system, the selection of a power controller, is dependent on a host of factors that go well beyond simple power requirements. In addition to network type, current, voltage and load type considerations, the choice of power controller depends on the degree of control required by the end product or application, downtime constraints and even current and future decarbonization goals. **The right partner can guide customers through the complexity of these factors to choose the best possible solution for their needs and budget.**



Through its acquisition of **Eurotherm**® in 2022, **Watlow**® expanded its family of power controllers to offer a wider, more comprehensive portfolio, with options ranging from highly-affordable tools that meet basic requirements to high-end products for the most advanced applications. The synergy between these industry leaders provides customers with not just a rich product offering, but combined decades of experience and engineering know-how in pairing the correct heater with the correct power controller for each industry and application. This allows **Watlow** to provide an unmatched level of knowledge and support to customers, offering a unique consultative approach throughout the system design and sales process.

Watlow Extended Line Power Controllers

The **Watlow** family of power controllers is significantly extended when combined with the **Eurotherm** line offering a comprehensive spectrum of functionality, as illustrated below, with simpler products on the left and higher performing, more feature-rich products towards the right. Corresponding to the level of complexity in each device, lower price options are lower on the chart. This wide variety of features and performance means **Watlow** customers can choose the level of sophistication they require to efficiently manage processes and reduce energy costs—without paying for more functionality than is necessary.



Cost/performance chart

† **POWERGLIDE**® smart controller available for select applications. Contact Watlow for more information.



Watlow's power controller offering can be logically divided into three categories based on functionality: Standard, smart and application specific.

Standard Power Controllers

- SSR
- ESwitch
- CZR
- **DIN-A-MITE®**

Standard power controllers from **Watlow** provide basic functionality when communications and closed-loop control are not required.

Smart Power Controllers

- Efit
- **ASPYRE® DT**
- EPower
- **EPack Lite®**
- EPac

Special Features

Depending on your application and goals, you might need a power controller with certain options available, such as:

Predictive load management: Ensure that your system does not draw too much power all at once.

Controller diagnostics: Run diagnostics and keep a record of controller function.

Communication and connection: Communicate and share the log of diagnostics for audit purposes and alert relevant parties if there is an issue.

Soft start: (aka heater bake out). Gradually increase the power supplied to the heaters to purge moisture and avoid damage caused by premature full power.

Contact Watlow Today

Partner with the **Watlow** team of experts to analyze your project requirements and future goals. We'll help you select the power controller that most efficiently meets the performance and budgetary requirements of your system.

POWERGLIDE®



POWERGLIDE® is a unique embodiment of Watlow's Adaptive Thermal Systems (ATS™) technology and combines temperature and power control into one ATS-enabled device ideal for complex processing applications.

Further information is available at: www.watlow.com