

ASPYRE_®



ASPYRE® To Elevate Your System

with an intelligent power controller family that simplifies your application while offering cutting-edge features

Modular and Smart Design Easy to Use and Service

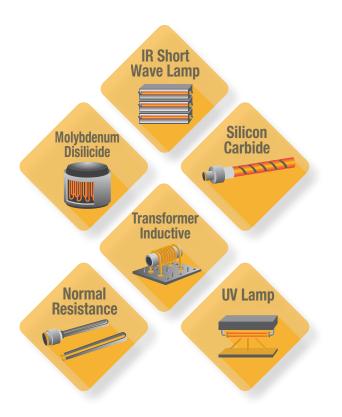
- Easy to read real character pixel display
- > Quick access to SCRs minimizes production downtime
- Simple to configure with ASPYRE[®] configuration PC software and plug and play access via USB device port
- Intuitive application wizard automatically recommends controller configuration settings based on load type
- Intelligent troubleshooting with built-in diagnostics

ASPYRE

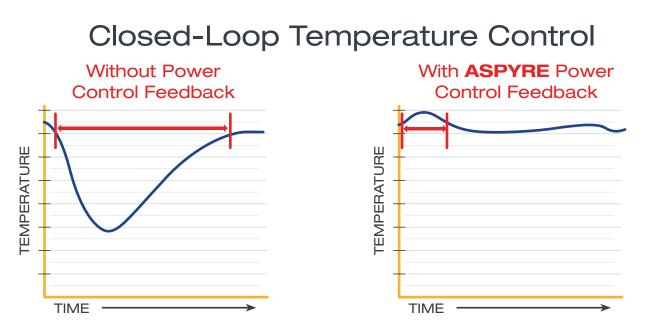
> Easy to access replaceable semiconductor fuses Model DT248-300

Model DT148-060

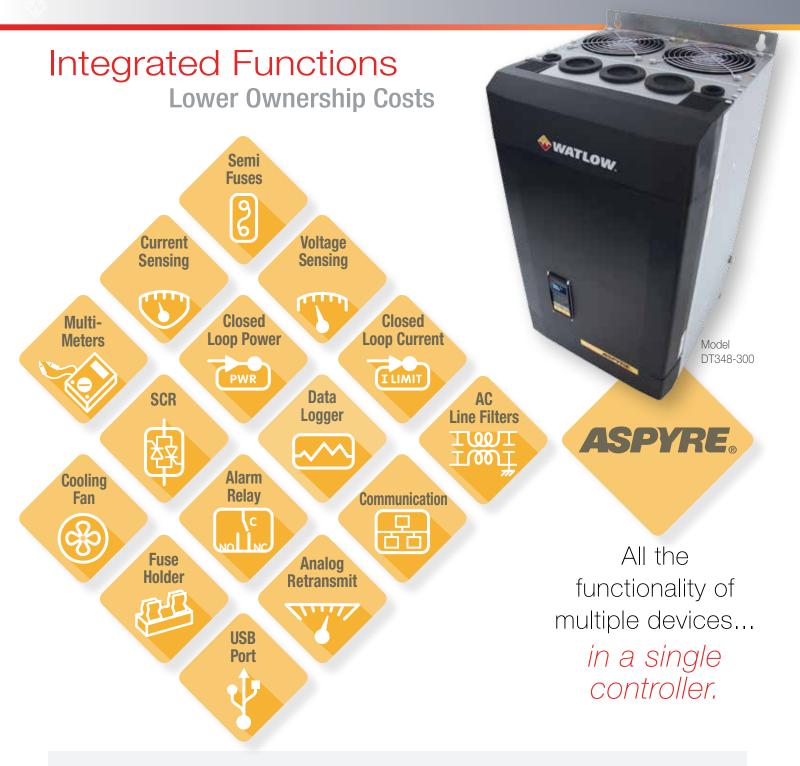
Improved Process Control For a Wide Variety of Load Types



- > 20 firing combinations to align with a variety of load types
- > Advanced control modes protect heater from damage on start up and extends overall heater element life
- Six available power control modes to maximize thermal performance
- Multiple digital and analog I/O to increase system control functionality



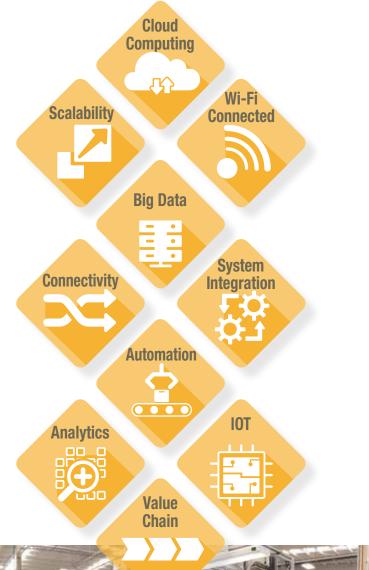
Power feedback can immediately adjust thermal performance to keep temperature constant



- > UL[®] 508 rating results in reduced labor and project costs
- Smaller footprint and less weight than legacy power controllers reduces cabinet space and shipping expenses
- Integrated design reduces system complexity, inventory and labor to install and wire
- > ASPYRE DT features SCR switching, voltage sensor, data logging, Wi-Fi, current sensor, semiconductor fusing, user interface, communications, relay alarm, cooling fan, back-up power supply and more in one device

Communication Access to Important Data Connectivity for Automation

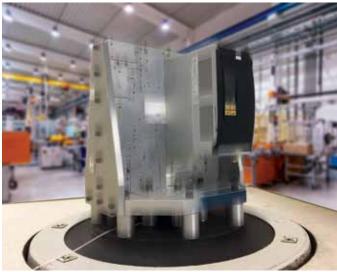
- > USB device port (file transfers configuration or data log)
- > Data logging
- > Wireless Wi-Fi and mobile application
- Communication protocols 232/485 Modbus® RTU (up to 2), Modbus® TCP (Ethernet), Profibus, Profinet
- > 4-20mA retransmit





Industry-Leading Design For High Quality and Reliability

High Performance Validated With Stringent Testing



Shock and vibration testing



- Robust SCR design with high l²t rating
- > Passes rigorous Watlow test standards
- > Agency compliance UL[®], CE, RoHS, W.E.E.E.
- > 100KA SCCR rating
- > UL[®] 508 rating
- UL[®] 508 shortens project schedules, agency testing and expenses

Meets or Exceeds Industrial Test Standards

EN 61326	Electrical equipment for measurement, control, and laboratory use - EMC requirements	
EN 61326-1	Electrical equipment for measurement, control, and laboratory use - EMC requirements Updated 61000-4-3 to 3 GHz, Updated 61000-4-11 dips test, required by Feb 1, 2009.	
EN 61000-4-2	Electrostatic discharge immunity test.	
EN 61000-4-3		
EN 61000-4-4		
EN 61000-4-5	Surge immunity test.	
EN 61000-4-6	6 Conducted disturbances induced by radio-frequency fields.	
EN 61000-4-8 Power frequency magnetic field immunity test.		
EN 61000-4-11	Limits and methods of measurement of radio disturbance characteristics	
EN 55011		
EN 61000-3-2	Limits for harmonic current emissions (equipment \pounds 16 A per phase)	
EN 61000-3-3	Limitation of voltage fluctuations and flicker in low-voltage supply systems with equipment with rated current \pounds 16 A.	

Wet Heater Bake Out Protects Heaters on Start-Up



Megohm heater circuit precheck

Reduces start up costs and production delays

Megohm Test Proceedure

WATLOW ELECTRIC MFG CO.

WATROD[™] Circulation Heater Installation & Maintenance Manual I&M NUMBER: 316-42-5-1

� WATLOW.

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1. Megohm precheck

During shipping and/or storage, the possibility of absorption by the insulation material within the element is possible. To ensure proper megohm values a minimum 500 VDC megohe **Easier** Megger) should be **Fewer**: ensure that the megohem read **Faster** sen the heater **Sheps** or than 10 megohems when the **Process** room temperature.



If a low me ohm value exists, two alternative methods can be used to remedy the situation. The best method is to remove all terminal hardware including thermostat if provided, and bake out the heater at no higher than 250°F (120°C) overnight or until an acceptable reading is reached. The second method is to energize the unit at low voltage in air until the medohm is at an acceptable reading. Care should be taken to prevent the heater sheath



Watlow process heater bundle





Find out more about Watlow and how we can provide thermal solutions for your company:

Phone: 1-800-WATLOW2 (1-800-928-5692) E-mail: inquiry@watlow.com Website: www.watlow.com

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