



UKCA Declaration of Conformity
 (in accordance with ISO/IEC 17050-1 and ISO/IEC 17050-2)



This is to certify that the product listed below, which was designed and manufactured by:

Watlow Electric Manufacturing Company

1241 Bundy Blvd.
 Winona, MN 55987 USA

meets the essential safety requirements of the following Statutory Guidelines, when properly installed, maintained and operated in the application for which it was designed. In addition, this is to certify that this product has also been designed and manufactured to ensure compliance with all applicable regulations.

A Technical Documentation File is also available for review by competent authorities and will be maintained for a period of ten years after the date on which the product was last manufactured. In addition to this Technical File, one can find design, safety, installation, maintenance, and application related information about this product in the documentation that was shipped with product or on www.watlow.com.

This declaration of conformity is issued under the sole responsibility of the manufacturer for the product listed below.

- Product Name:** Aspyre DT Power Controller
- Watlow Part Number:** DT (1, 2 or 3) (48, 60 or 69) – (035, 040, 060, 090, 120, 150, 180, 210, 300, 350, 400, 450, 500, 600, 700, 800, 1K1, 1K4, 1K6, 1K8, 2K1)(1, 2, 3, 4, 5 or 6) (Any letter or number) – (0, 1, 2 or 3) (Any Number or letter)(A or C) (Any two number or letters)
- Product Description:** Electric Power Control, Utilization Categories AC-1, AC-5b, AC-6a Installation Category III, Pollution degree 2
- Auxiliary Voltage and Frequency:** Range 1 90 to 135 Vac~ 50/60 Hz
 Range 2 180 to 265 Vac~ 50/60 Hz
 Range 3 249 to 305 Vac~ 50/60 Hz*
 Range 4 342 to 528 Vac~ 50/60 Hz*
 Range 5 540 to 660 Vac~ 50/60 Hz*
 Range 6 540 to 759 Vac~ 50/60 Hz*
 *Range 6 not valid 035, 040 models
 *Ranges 3, 4, 5 and 6 not valid 1K1, 1K4, 1K6, 1K8, and 2K1 models.
- Load Voltage and Frequency:** 100 to 480 Vac, 100 to 600 Vac or 100 to 690 Vac Options (Load voltage should be within Auxiliary voltage range above or an external transformer will be required. Polarity sync needs to be maintained between load and auxiliary for proper line sync. 50 or 60 Hz
- Fan Power** 035, 040, 060 A models no fan
 DT(1,2,3)(48, 60)-(090-210) models use one fan per leg
 110-120 Vac 50/60 Hz 15 watts per fan
 220-240 Vac 50/60 Hz 16 watts per fan
 24 Vdc 12 watts per fan
 DT1 (48, 60, 69) – (300-700) models use two 17 watt fans.
 DT(2, 3)(48, 60, 69) – (300-700) models use four 17 watt fans.
 DT169 – (060 to 210) models use one 17 watt fan.
 DT(2, 3) 69 – 060 models use one 17 watt fan.
 DT(2, 3) 69 – (090 to 210) models use two 17 watt fans.
 DTX(48, 60, 69) – 800 models use two 16 watt fans per leg.
 DTX(48, 60, 69) – (1K1, 1K4, 1K6, 1K8, 2K1) models use two 75 watt fans per leg,
 24 V fan not valid for – (1K1, 1K4, 1K6, 1K8, 2K1) models

Any questions relating to this declaration or the conformity of the product(s) covered by this declaration should be directed, in writing, to either the European or Company Authorized Representative noted on this declaration.

- Auxiliary Power:** 8 VA Auxiliary Power, 14 VA Auxiliary Power (1K1, 1K4, 1K6, 1K8, 2K1) models
Load Current based on model number digits 6, 7 and 8 indicating maximum current at up to 40°C ambient. 035 = 35 Amps, 120 = 120 Amps, 1K1 = 1100 Amps etc.
Models available in Single Phase, Three Phase 2 leg control or Three Phase 3 leg control.
- Environmental:** IP20 with covers installed.

We, as the manufacturer, hereby declare that the products described above are in conformity with the applicable requirements in accordance with the following **Statutory Guidance**:

- Applicable regulations:** **S.I. 2016 No. 1101** – Electrical Equipment (Safety) Regulations
S.I. 2016 No. 1091 – Electromagnetic Compatibility (EMC) Regulations
S.I. 2012 No. 3032 – Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous materials (RoHS).
S.I. 2018 No. 1214 – The Waste Electrical and Electronic Equipment Regulations Amendment. 2. (WEEE)
S.I. 2008 No. 2164 – Using button and coin batteries (specific models only)

The object of the declarations described above is in conformity with the relevant harmonized standards:

Applicable Standards:

- Safety:** **EN 60947-1 2007 A1 2011/A2 2014** *Low Voltage Switchgear and Controlgear: Part 1 General Rules.*
EN 60947-4-3 2014 Part 4-3: Contactors and motor-starters - AC semiconductor controllers and contactors for non-motor loads
- EMC:** **EN 60947-1 2007 A1 2011/A2 2014** *Low Voltage Switchgear and Controlgear: Part 1 General Rules.*
EN 60947-4-3 2014 Part 4-3: Contactors and motor-starters - AC semiconductor controllers and contactors for non-motor loads
EN 55011 2016 A1 2017/A11 2020/A2 2021¹ Group 1 RF not intentionally generated, Class A Residential Commercial Radiated Emissions, Class A Industrial Conducted Emissions.
BS EN 61000-4-2 2009 Electrostatic discharge immunity 4k contact, 8k air.
BS EN 61000-4-3 2020 Radiated, radio-frequency electromagnetic field immunity 10V/M 80–1000 MHz, 3 V/M 1.4–6 GHz
BS EN 61000-4-4 2012 Electrical fast-transient / burst immunity 2k
BS EN 61000-4-5 2014/A1 2017 Surge immunity 1k L-L, 2k L-E
BS EN 61000-4-6 2023 Immunity to conducted disturbances induced by radio-frequency fields 10V
BS EN 61000-4-8 2010 Power Frequency Magnetic Field Immunity 30A/m
BS EN 61000-4-11 2020/AC 2022 Voltage dips, short interruptions and voltage variations immunity
- Battery:** *Models DTXXX-XXXX-AXX(C or D)XX contain a type CR2032 lithium coin cell battery which shall be recycled at end of life.*
- WEEE:** Electronic Equipment Assembly, Consult sales office or factory for information on proper recycling methods. Case plastics are Polycarbonate. Connectors Nylon.
- Environmental:** **EN IEC 63000²:2018-** Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances (RoHS) 10 of 10 with exemptions below.

Notes:

- 1) *CAUTION: This equipment not intended for use in residential environments and may not provide adequate protection to radio reception in such environments. For use in Class B environments, additional filtering on power lines required. For use with Phase Angle control, additional filtering required to pass Class A conducted Emissions. A Schaffner FN2080-16-06 was using in testing. A model with similar attenuation appropriate for currents involved will need to be selected in the end application or relaxed limits for > 20 kVA loads could be followed.*
- 2) RoHS compliance of some components used within product is via the following exemptions
 - 6 c) Copper alloy containing up to 4 % lead by weight (terminals)
 - 7 a) Lead in high melting point solders internal to components (SCR's)
 - 7 c) -i Lead in glass in ceramic internal to components

Any questions relating to this declaration or the conformity of the product(s) covered by this declaration should be directed, in writing, to either the European or Company Authorized Representative noted on this declaration.

European Authorized Representative:

Mr. Martin Wallinger
Watlow Plasmatech GmbH
Brennhoflehen-Kellau 156
5431, Kuehl, Austria

Implementation Date:

9 July 2024

Place of Issue:

Winona, MN USA

Company Authorized Representative:

Jeff Harrington



Director of Operations
Watlow Electric Manufacturing Company
1241 Bundy Blvd.
Winona, MN 55987 USA



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