



# Certificate of Compliance

**Certificate:** 70014902

**Master Contract:** 154649

**Project:** 80056943

**Date Issued:** 2020-10-02

**Issued To:** ITW Welding Group  
1635 W Spencer St  
Appleton, Wisconsin, 54912  
United States

**Attention:** Terry Christianson-Plato

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.*

**Issued by:** Sam Zaffino  
Sam Zaffino



## **PRODUCTS**

CLASS - C561103 - WELDING MACHINES

CLASS - C561183 - WELDING MACHINES Certified to US Standards

**Part A: Model: DIMENSION 650 380/460V and DIMENSION 650 380/460V W/ARCREACH**

**Specifications:** The inverter power source is rated as follows:

### **GTAW Specifications:**

Input: 380 VAC, 60Hz, Three Phase

Output: 650 ADC / 34.0 VDC, 100% Duty Cycle, OCV 61 VDC

Input: 380 VAC, 60Hz, Three Phase



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Output: 750 ADC / 34.0 VDC, 60% Duty Cycle, OCV 61 VDC

Input: 380 VAC, 60Hz, Three Phase  
Output: 815 ADC / 34.0 VDC, 25% Duty Cycle, OCV 61 VDC

Input: 460 VAC, 60Hz, Three Phase  
Output: 650 ADC / 34.0 VDC, 100% Duty Cycle, OCV 72 VDC

Input: 460 VAC, 60Hz, Three Phase  
Output: 750 ADC / 34.0 VDC, 60% Duty Cycle, OCV 72 VDC

Input: 460 VAC, 60Hz, Three Phase  
Output: 815 ADC / 34.0 VDC, 25% Duty Cycle, OCV 72 VDC

**SMAW Specifications:**

Input: 380 VAC, 60Hz, Three Phase  
Output: 650 ADC / 44.00 VDC, 100% Duty Cycle, OCV 65 VDC

Input: 380 VAC, 60Hz, Three Phase  
Output: 750 ADC / 44.0 VDC, 60% Duty Cycle, OCV 65 VDC

Input: 460 VAC, 60Hz, Three Phase  
Output: 650 ADC / 44.00 VDC, 100% Duty Cycle, OCV 79 VDC

Input: 460 VAC, 60Hz, Three Phase  
Output: 750 ADC / 44.0 VDC, 60% Duty Cycle, OCV 79 VDC

**GMAW Specifications:**

Input: 380 VAC, 60Hz, Three Phase  
Output: 650 ADC / 44.00 VDC, 100% Duty Cycle, OCV 65 VDC

Input: 380 VAC, 60Hz, Three Phase  
Output: 750 ADC / 44.0 VDC, 60% Duty Cycle, OCV 65 VDC

Input: 380 VAC, 60Hz, Three Phase  
Output: 815 ADC / 44.0 VDC, 25% Duty Cycle, OCV 65 VDC

Input: 460 VAC, 60Hz, Three Phase  
Output: 650 ADC / 44.00 VDC, 100% Duty Cycle, OCV 79 VDC

Input: 460 VAC, 60Hz, Three Phase  
Output: 750 ADC / 44.0 VDC, 60% Duty Cycle, OCV 79 VDC



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Input: 460 VAC, 60Hz, Three Phase  
Output: 815 ADC / 44.0 VDC, 25% Duty Cycle, OCV 79 VDC

**Input Current Specifications:**

U1: 380 VAC,  $I_{1max}$ : 62.2 A,  $I_{1eff}$ : 51.0 A  
U1: 460 VAC,  $I_{1max}$ : 53.8 A,  $I_{1eff}$ : 43.1 A

**PART B: DIMENSION 650 575v w/ArcReach**

**GTAW Specifications:**

Input: 575 VAC, 60Hz, Three Phase  
Output: 650 ADC / 34.0 VDC, 100% Duty Cycle, OCV 65 VDC

Input: 575 VAC, 60Hz, Three Phase  
Output: 750 ADC / 34.0 VDC, 60% Duty Cycle, OCV 65 VDC

Input: 575 VAC, 60Hz, Three Phase  
Output: 815 ADC / 34.0 VDC, 25% Duty Cycle, OCV 65 VDC

**SMAW Specifications:**

Input: 575 VAC, 60Hz, Three Phase  
Output: 650 ADC / 44.00 VDC, 100% Duty Cycle, OCV 77 VDC

Input: 575 VAC, 60Hz, Three Phase  
Output: 750 ADC / 44.0 VDC, 60% Duty Cycle, OCV 77 VDC

**GMAW Specifications:**

Input: 575 VAC, 60Hz, Three Phase  
Output: 650 ADC / 44.00 VDC, 100% Duty Cycle, OCV 77 VDC

Input: 575 VAC, 60Hz, Three Phase  
Output: 750 ADC / 44.0 VDC, 60% Duty Cycle, OCV 77 VDC

Input: 575 VAC, 60Hz, Three Phase  
Output: 815 ADC / 44.0 VDC, 25% Duty Cycle, OCV 77 VDC

**Input Current Specifications:**

U1: 575 VAC,  $I_{1max}$ : 43.2 A,  $I_{1eff}$ : 34.3 A



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**APPLICABLE REQUIREMENTS**

CAN/CSA – E60974-1:12 - Arc Welding Equipment; Part 1: Welding Power Source.  
ANSI/IEC 60974-1: March 2008 - Arc Welding Equipment; Part 1: Welding Power Source



## *Supplement to Certificate of Compliance*

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*The products listed, including the latest revision described below,  
are eligible to be marked in accordance with the referenced Certificate.*

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
80056943	2020-10-02	Update to 70014902 to alt model version
000070069420	2016-03-23	Update to 70014902 to cover alt construction
000070014902	2014-11-12	Evaluation of moel Dimension 650