



# Certificate of Compliance

**Certificate:** 1843470

**Master Contract:** 154351

**Project:** 80068490

**Date Issued:** 2021-01-14

**Issued To:** Hypertherm, Incorporated  
21 Great Hollow Rd  
Hanover, New Hampshire, 03755  
United States

**Attention:** Bobbie-Jeanne Wheeler

*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: Manual plasma arc cutting system, Model powermax30 (part number 088000, 088066, 088063)  
Rated input of 120V/26A or 200-240V/15.5-13A, 50/60 Hz. Output voltage 92Vdc output current 15-30A

For use with model T30v hand torch

Part B: Manual plasma arc cutting and gouging system, Model powermax45  
(part number 088013, 088062) Rated input – single phase, 50/60 Hz, 200-240V/26-22A for cutting and 200-240V/30-26A for gouging. (part number 088068, 088070, 088071) Rated input – 3 phase, 50/60 Hz, 480V/6.5A for cutting and 480V/7.7A for gouging  
Output voltage 98Vdc for cutting and 118Vdc for gouging. Output current 20-45A



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For use with hand torch model T45v  
or machine torch model T45m

Part C: Manual plasma arc cutting and gouging system, Model powermax65 (P/Ns 083234, 083266, 083267, 083299).

Rated input – single phase, 50/60 Hz, 200-480V/41-17A for cutting and 200-480V/48-20A for gouging.  
Rated input – 3 phase, 50/60 Hz, 200-480V/25-11A for cutting and 200-480V/29-12A for gouging.  
Rated input – 3 phase, 50/60 Hz, 600V/11A for cutting and 600V/12A for gouging.

Output voltage 106Vdc for cutting and 126Vdc for gouging. Output current 20-65A.

For use with plasma cutting trigger contact hand torch and plasma cutting machine torch models: Duramax H65, Duramax H65s, Duramax M65, Duramax M65m, Duramax H85, Duramax H85s, Duramax M85, Duramax M85m, Duramax H105, Duramax H105s, Duramax M105, Duramax M105m, Duramax Hand, Duramax Machine, Duramax Mini Machine, Duramax Robotic, Duramax Hyamp Hand, Duramax Hyamp Machine, Duramax Hyamp Mini Machine, Duramax Hyamp Robotic, and Duramax Hyamp Long torches provided with quick disconnection termination to power source.

See Part I for coupling devices.

Part D: Manual plasma arc cutting and gouging system, Model powermax85 (P/Ns 087067, 087104, 087105, , 087134).

Rated input – single phase, 50/60 Hz, 200-480V/56-24A for cutting and 200-480V/66-28A for gouging.  
Rated input – 3 phase, 50/60 Hz, 200-480V/34-15A for cutting and 200-480V/40-17A for gouging.  
Rated input – 3 phase, 50/60 Hz, 600V/14A for cutting and 600V/16A for gouging

Output voltage 114Vdc for cutting and 134Vdc for gouging. Output current 25-85A.

For use with plasma cutting trigger contact hand torch and plasma cutting machine torch models: Duramax H85, Duramax H85s, Duramax M85, Duramax M85m, Duramax H105, Duramax H105s, Duramax M105, Duramax M105m, Duramax Hand, Duramax Machine, Duramax Mini Machine, Duramax Robotic, Duramax Hyamp Hand, Duramax Hyamp Machine, Duramax Hyamp Mini Machine, Duramax Hyamp Robotic, and Duramax Hyamp Long torches provided with quick disconnection termination to power source

See Part I for coupling devices.

Part E: Manual plasma arc cutting and gouging system, Model powermax105 (P/Ns 059370, 059371, 059372, 059524).



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Rated input – 3 phase, 50/60 Hz, 200-600V/47-19A for cutting and 200-600V/54-22A for gouging.  
Output voltage 122Vdc for cutting and 142Vdc for gouging. Output current 30-105A.

For use with plasma cutting trigger contact hand torch and plasma cutting machine torch models: Duramax H105, Duramax H105s, Duramax M105, Duramax M105m, Duramax Hand, Duramax Machine, Duramax Mini Machine, Duramax Robotic, Duramax Hyamp Hand, Duramax Hyamp Machine, Duramax Hyamp Mini Machine, Duramax Hyamp Robotic, and Duramax Hyamp Long torches provided with quick disconnection termination to power source.

See Part I for coupling devices.

Part F: Manual plasma arc cutting and gouging system

Model 480V powermax125 (P/Ns 059488, 059489, 059606, 059669)  
Rated input – 3 phase, 50/60 Hz, 480V/23A for cutting and 26A for gouging.  
Output voltage 130Vdc for cutting and 150Vdc for gouging. Output current 30-125A.  
Maximum OCV 320V

Model 600V powermax125 (P/Ns 059509, 059510, 059607)  
Rated input – 3 phase, 50/60 Hz, 600V/18A for cutting and 21A for gouging.  
Output voltage 130Vdc for cutting and 150Vdc for gouging. Output current 30-125A.  
Maximum OCV 320V

The 480V or 600V powermax125 is designed for use with plasma cutting trigger contact hand torch and plasma cutting machine torch models: Duramax Hyamp Hand, Duramax Hyamp Machine, Duramax Hyamp Mini Machine, Duramax Hyamp Robotic, and Duramax Hyamp Long torches provided with quick disconnection termination to power source.

See Part I for coupling devices.

Part G: Manual plasma arc cutting system, Model Powermax30 XP (part number 088074, 088077, 088078, 088086)  
Rated input of 120V/28A/12.5A@20% duty cycle or 200-240V/22.4-18.8A/13.3 -11.1A @35% duty cycle, 50/60 Hz. Output voltage 92Vdc output current 15-30A

For use with plasma cutting trigger contact hand torch model Duramax LT (part number 088067) or PS OEM (part number 088085).

Part H: Manual plasma arc cutting system, Model Powermax30 Air (part number 088088, 088090, 088101)  
Rated input of 120V/32A/14A@ 20% duty cycle or 200-240V/19-16A/11-9A@ 35% duty cycle, 50/60 Hz. Output voltage 92Vdc output current 15-30A.

For use with plasma cutting trigger contact hand torch model AIR T30 (part number 088091)



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**Part I:** Coupling devices (socket/plug) for Powermax 65/85/45 XP (part number 228364 / part number 104452) and for Powermax 105/125 (part number 228800 / part number 104633).

**Part J:** Manual plasma arc cutting system, Model Powermax 45 XP Rated Input of single phase, 50/60 Hz, 200-240V/26-22A for cutting and 200-240V/31-26A for gouging (part numbers 088092, 088104, 088105, 088158). Rated input – 3 phase, 50/60 Hz, 480V/6.5A for cutting and 480V/7.7A for gouging (part numbers 088095, 088110, 088111, 088160, 088173)  
Output voltage 98Vdc for cutting and 118Vdc for gouging. Output current 10-45A

For use with plasma cutting trigger contact hand torch and plasma cutting machine torch models: Duramax Lock Hand, Duramax Lock Machine, Duramax Hand, Duramax Machine, Duramax Mini Machine, Duramax Robotic, Duramax Hyamp Hand, Duramax Hyamp Machine, Duramax Hyamp Mini Machine, Duramax Hyamp Robotic, and Duramax Hyamp Long torches provided with quick disconnection termination to power source.

**Part K:** Light industrial plasma arc cutting and gouging system, model Powermax65 SYNC™ (P/Ns 083329, 083340, 083341, 083342).

Rated input – single phase, 50/60 Hz, 200-480V/41-17A for cutting and 200-480V/48-20A for gouging.  
Rated input – 3 phase, 50/60 Hz, 200-480V/25-11A for cutting and 200-480V/29-12A for gouging.  
Rated input – 3 phase, 50/60 Hz, 600V/11A for cutting and 600V/12A for gouging.

Output voltage 106Vdc for cutting and 126Vdc for gouging. Output current 20-65A.

For use with plasma cutting trigger contact hand torch and plasma cutting machine torch models: SmartSYNC™ branded machine torches, SmartSYNC™ branded hand torches, SmartSYNC™ branded mini-machine torches, SmartSYNC™ branded robotic torches, and SmartSYNC™ branded long torches which are provided with quick disconnection termination to the power source.

See Part I for coupling devices.

**Part L:** Manual plasma arc cutting and gouging system, model Powermax85 SYNC™ (P/Ns 087169, 087180, 087181, 087182).

Rated input – single phase, 50/60 Hz, 200-480V/56-24A for cutting and 200-480V/66-28A for gouging.  
Rated input – 3 phase, 50/60 Hz, 200-480V/34-15A for cutting and 200-480V/40-17A for gouging.  
Rated input – 3 phase, 50/60 Hz, 600V/14A for cutting and 600V/16A for gouging

Output voltage 114Vdc for cutting and 134Vdc for gouging. Output current 25-85A.

For use with plasma cutting trigger contact hand torch and plasma cutting machine torch models: SmartSYNC™ branded machine torches, SmartSYNC™ branded hand torches, SmartSYNC™ branded mini-machine torches, SmartSYNC™ branded robotic torches, and SmartSYNC™ branded long torches which are provided with quick disconnection termination to the power source.



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See Part I for coupling devices.

Part M: Manual plasma arc cutting and gouging system, model Powermax105 SYNC™ (P/Ns 059629, 059640, 059641, 059642).

Rated input – 3 phase, 50/60 Hz, 200-480V/47-19A for cutting and 200-480V/54-22A for gouging.  
Rated input – 3 phase, 50/60 Hz, 600V/17A for cutting and 600V/20A for gouging

Output voltage 122Vdc for cutting and 142Vdc for gouging. Output current 30-105A.

For use with plasma cutting trigger contact hand torch and plasma cutting machine torch models: SmartSYNC™ branded machine torches, SmartSYNC™ branded hand torches, SmartSYNC™ branded mini-machine torches, SmartSYNC™ branded robotic torches, and SmartSYNC™ branded long torches which are provided with quick disconnection termination to the power source.

See Part I for coupling devices.

Notes applicable to Parts A, B, C, D, E, F, G, H, J, K, L, & M:

- Where multiple part numbers exist for the same model torch, the torches are identical except for lead length
- Where the power cord plug is not supplied and the installation of this equipment is subject to approval of the Local Inspection Authorities.
- The Hypertherm torches are fitted with Hypertherm Consumables described in the instruction manuals

Note applicable to Parts C, D, E, F, I, J, K, L, & M:

- Coupling devices are designed for cables used in Hypertherm plasma cutting systems for connection and disconnection of work leads without using tools.

### **APPLICABLE REQUIREMENTS**

CSA C22.2 No. 60974-1	- Arc Welding Equipment; Part 1: Welding Power Source.
ANSI/IEC 60974-1	- Arc Welding Equipment; Part 1: Welding Power Source
CAN/CSA-E60974-7	-Arc Welding Equipment; Part 7: Torches
ANSI/IEC 60974-7	- American National Standard for Arc Welding Equipment – Part 7: Torches



## *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>
80068490	2021-01-14	Update to 1843470 to cover alternate components
80027626	2019-12-16	Update to 1843470 to add similar models
000070201723	2018-10-30	Update to 1843470 to cover alt const
000070153507	2017-09-08	Update to report 1843470
000070090392	2016-07-25	Update to 1843470 to add similar model Powermax 45XP
000070041686	2015-07-29	Update to cover alt const
000070029846	2015-04-14	Update to cover alt const to 1843470
000070015836	2014-12-01	Update to cover addition of similar model
0002718394	2014-04-17	Update to cover addition of alternate torch
0002694735	2014-01-30	Update to cover alternate torch
0002642326	2013-07-04	Update to cover addition of Powermax 125 Torch in part G of report
0002622307	2013-05-10	Update 1843470 to cover addition of similar models
0002605616	2013-03-07	Update to cover alternate construction
0002518390	2012-04-26	Update report for description clarification.
0002513726	2012-04-04	Update project for additional model Powermax 105 description update.
0002452524	2011-09-22	Update report to cover description clarification, alternate components and accepted alternate torch Duramax Robotic
0002320431	2010-07-08	Update report for report clarification and certification of PowerMax 65 and 85 based on CPC program



0002212467	2009-09-24	Update to report 1843470 to cover alternate components and vendors.
0002035494	2008-06-02	Covers alternate construction, alternate component and suppliers for model Powermax30 and addition of new model Powermax45(p/n 088013)-manual plasma arc cutting and gouging system described in part B. De-listed in class 5611-81.
0001843470	2007-01-26	Plasma Cutter Model Power Max 30 (part number 088000)