



LEGACY POWER SUPPLY

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Powermax65 plasma cutter

The Powermax65® 65-amp plasma power supply will stop manufacturing in December 2021, and will no longer be available for sale from Hypertherm. We continue to make original replacement torches, consumables, and repair parts. Refer to the Torches and consumables section for additional upgrade options.

Hypertherm Technical Service department still supports this model.

[View affected part numbers](#)

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PRODUCTCODE=POWERMAX65)**

System information

Product lifecycle

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Specifications

Cut capacity

Capacity	Thickness	Cut speed
	Cutting	
Recommended	20 mm (3/4")	500 mm/min (20 ipm)
	25 mm (1")	250 mm/min (10 ipm)
Severance (hand cutting)	32 mm (1-1/4")	125 mm/min (5 ipm)
Pierce *	16 mm (5/8")	

* Pierce rating for handheld use or with automatic torch height control.

Capacity	Metal removal rate	Groove profile
	Gouging	
Typical gouge	4,8 kg/hr (10.7 lbs./hr)	3,5 mm D x 6,6 mm W (0.14" D x 0.26" W)

Production cut chart

Material	Thickness		Current amps	Production cut speed *	
	inches	mm		ipm	mm/min
Mild steel	10 GA	3	65	224	6100
	1/4	6	65	116	3240
	3/8	10	65	62	1500
	1/2	12	65	40	1140
	5/8	16	65	26	650
Stainless steel	10GA	3	65	296	8260
	1/4	6	65	96	2850
	3/8	10	65	52	1250
	1/2	12	65	32	920
Aluminum	1/8	3	65	336	8800

1/4	6	65	152	4400
3/8	10	65	68	1650
1/2	12	65	48	1330

*Production cut speeds are the result of Hypertherm's laboratory testing.

Production speeds are approximately 80% of maximum. For optimum cut quality, cutting speeds may vary based on different cutting applications. Refer to the operator manual for more details.

General specifications

Input voltages	CSA	200–480 V, 1-PH, 50/60 Hz 200–600 V, 3-PH, 50/60 Hz
	CE	380/400 V, 3-PH, 50/60 Hz
Input Current @ 9 kW	CSA	200/208/240/480 V, 1-PH, 52/50/44/22 A 200/208/240/480/600 V, 3-PH, 32/31/27/13/13 A
	CE	380/400 V, 3-PH, 15.5/15 A
Output current	20–65 A	
Rated output voltage	139 VDC	
Duty cycle @ 40° C (104° F)	CSA	50% @ 65 A, 230 – 600 V, 1/3-PH 40% @ 65 A, 200 – 208 V, 1/3-PH 100% @ 46 A, 230 – 600 V, 1/3-PH
	CE	50% @ 65 A, 380/400 V, 3-PH 100% @ 46 A, 380/400 V, 3-PH
Open circuit voltage (OCV)	CSA	295 VDC
	CE	270 VDC
Dimensions with handles	500 mm (19.7") D; 234 mm (9.2") W; 455 mm (17.9") H	
Weight with 7.6 m (25') torch	CSA	29 kg (64 lbs.)
	CE	26 kg (57 lbs.)
Gas supply	Clean, dry, oil-free air or nitrogen	

Recommended gas inlet flow rate/pressure	CUTTING: 189 l/min (400 scfh; 6.7 scfm) @ 85 psi (5.9 bar) Gouging: 450 scfh; 212 l/min (7.5 scfm) @ 70 psi (4.8 bar)	
Input power cable length	3 m (10')	
Power supply type	Inverter – IGBT	

Engine-driven generator operation

Engine drive rating	System output current	Performance (arc stretch)
15 kW	65 A	Full
12 kW	65 A	Limited
12 kW	40 A	Full
8 kW	40 A	Limited
8 kW	30 A	Full

Resources

Torches and consumables

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Upgrade to the new cartridge consumable platform!

The Hypertherm cartridge consumable platform is a revolutionary change to standard air plasma consumables. Each single-piece cartridge is optimized by process and amperage to ensure performance while dramatically simplifying the parts needed to cut or gouge with plasma.

LEARN MORE ABOUT THE CARTRIDGE (/LEARN/CONSUMABLES-AND-TORCHES/FOR-POWERMAX-AND-MAX-SYSTEMS/HYPERTHERM-CARTRIDGES/)

Torch and cable options

Hypertherm cartridges and adapter upgrade

Standard consumables



Select application

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11/11/22, 5:40 PM	Powermax65 plasma cutting machine and consumables Hypertherm	(/support/resources-by-product/: PRODUCTCODE=POWERMAX65)	
			
Drag cutting			
			
Extended reach gouging			

Related upgrades



(/hypertherm/powermax/powermax65-sync/)

Powermax65 SYNC plasma cutter (/hypertherm/powermax/powermax65-sync/)

Professional-grade 20 mm (3/4") plasma cutter provides automated process set-up and a revolutionary cartridge consumable platform for ease of use and optimized performance. Featuring a wide variety of torches and application capabilities for handheld and mechanized cutting and gouging.

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(/hypertherm/accessories/cartridge-torch-adaptor/)

Hypertherm cartridge adapter (/hypertherm/accessories/cartridge-torch-adaptor/)

The cartridge adapter lets you convert to Hypertherm’s new cartridge consumable platform if you have a Powermax45® XP with a Duramax® Lock torch or a Powermax65®, Powermax85®, or Powermax105® with a Duramax torch.

Related products

Accessories	Software	Torches
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(/hypertherm/accessories/plasma-angle-cutting-guides/)

Plasma angle cutting guides (/hypertherm/accessories/plasma-angle-cutting-guides/)

Plasma angle cutting guide is designed for accurate hand cuts of angles and square edges.



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(/hypertherm/accessories/leather-torch-sheaths/)

Leather torch sheaths (/hypertherm/accessories/leather-torch-sheaths/)

The Hypertherm leather torch sheath provides additional protection for torch leads against cuts, burn-through and abrasion.



(/hypertherm/accessories/automation-communication-kits/)

Automated communication kits (/hypertherm/accessories/automation-communication-kits/)

Upgrade kits for the Powermax65®/85/105/125 and Powermax65/85/105 SYNC™ systems for automated applications.

How can we help you?



Ask a technical question

(/contact-us/?form=technical-questions&product=POWERMAX65)

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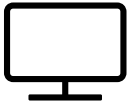
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Product support [\(/support/resources-by-product/?productcode=POWERMAX65\)](/support/resources-by-product/?productcode=POWERMAX65)

