HYPERTHERM®
A Hypertherm Associates Brand

Powermax65 SYNC

Recommended cut capacity of 20 mm (3/4")

Severance capacity of 32 mm (1-1/4")

Professional grade



Part of the Powermax® family, the Powermax65 SYNC® features advanced torch communication for automated setup and patented single-piece cartridges for hand cutting, mechanized or robotic cutting, and gouging.

Key business benefits

Simplify operations and boost productivity
Single-piece cartridge simplifies operations and dramatically reduces training time

Minimize operating costs
Up to 5x longer consumable life compared to competitors decreases operating costs

Reduce secondary operations
Improved cut quality over consumable life delivers better part consistency to reduce secondary operations

Cut and gouge capacities

Cut capacity	Thickness	Cut speed
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		
Gouge capacity	**Metal removal rate**	**Groove profile**
Typical gouge	4.0 kg (8.8 lbs) per hour	2.9 mm (.11") D x 6.4 mm (.25") W

Torch output**	9 kW
	65 A x 139 V ÷ 1000 W = 9.0 kW

**Higher output voltage at the torch plus efficiently designed consumables result in a faster, cleaner cut.

Easy to use. Versatile. Reliable.

For metal workers who want the most versatile system available to gouge and cut, Powermax65 SYNC delivers the best return on investment. It features a patented single-piece cartridge, greater cutting power than higher-amperage competitors, an automated system process set-up, and SmartSYNC® torches that provide trackable utilization data.

"I've been using the new Powermax65 SYNC since last summer. One cartridge. No slag, beautiful lines, even fine ones."

Rae Ripple, Artist, welder, published author

THE **BEST** **INVESTMENT** IS IN YOUR **POWER**

Our customers' preferred cutting tool for industries including:

- Job shops/fabricators
- Truck and trailer fabrication
- HVAC/mechanical contracting
- Educational/trade schools
- Agricultural/equipment maintenance

Highlighted product features:

Easy to use

- SmartSYNC® torches with the cartridge automatically set the correct amperage and operating mode, eliminating setup errors
- Easy to identify single-piece cartridges are color-coded by process to eliminate parts mix-up and simplify consumable inventory management
- End-of-life detection lets the operator know when it's time to change the cartridge
- Simplified operation minimizes downtime, troubleshooting, waste, and training time

Versatile

- Tackle a wide range of jobs with easily interchangeable torch styles and application-specific cartridges for various types of cutting and gouging
- Time-saving torch controls allow the operator to adjust the amperage on the fly and change cartridges and applications without returning to the power supply
- Access cartridge data for performance tracking, analyzing usage patterns

Industry-leading reliability

- Powermax plasma cutters are known to last decades in the field, minimizing maintenance and downtime
- Power supplies and torches are engineered for rugged industrial environments
- Each Powermax component is tested to perform reliably in demanding conditions

Specifications – CSA

Input voltages (± 10%)	200–480 V, 1-PH, 50/60 Hz
	200–600 V, 3-PH, 50/60 Hz
Input current @ 9 kW	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
Output current	20–65 A
Rated output voltage	139 VDC
Duty cycle @ 40° C (104° F)	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
Open circuit voltage (OCV)	295 VDC
Weight with 7.6 m (25') torch	27.8 kg (61.7 lbs.)

CSA – for use in the Americas and Asia, except China

Specifications – CE/CCC

Input voltages (± 10%)	380/400 V, 3-PH, 50–60 Hz
Input current @ 9 kW	380/400 V, 15.5/15 A
Output current	20–65 A
Rated output voltage	139 VDC
Duty cycle @ 40° C (104° F)	50% @ 65 A, 380–400 V, 3-PH
	100% @ 46 A, 380–400 V, 3-PH
Open circuit voltage (OCV)	295 VDC
	270 VDC
Weight with 7.6 m (25') torch	24.1 kg (52.7 lbs.)

CE – for use in Europe, Australia & New Zealand - RCM, Serbia, UK – UKCA, Ukraine, and other countries where accepted. CCC – for use in China.

Dimensions with handles	483 mm D; 233 mm W; 430 mm H (19" D; 9.2" W; 17" H)
Gas supply	Clean, dry, oil-free air or nitrogen
Recommended gas inlet flow rate/pressure	Cutting: 210 l/min @ 5.9 bar, (450 scfh, 7.5 scfm @ 85 psi)
	Gouging: 210 l/min @ 4.8 bar, (450 scfh, 7.5 scfm @ 70 psi)
Electrical efficiency	91.2%
Recyclability	100%
Warranty	Power supply: 6-year, Torch: 1-year

Ordering information – CSA

Below are the standard system configurations, which include a power supply, torch or torches, work cable, 3–4 cartridges, and product information. Some configurations may include additional items such as a remote pendant and communication cables.

CSA – for use in the Americas and Asia, except China	75° hand torch		75° and 15° hand torch	180° full-length machine torch					180° full-length machine torch and 75° hand torch
Torch lead length	7.6 m (25')	15.2 m (50')	7.6 m (25')	7.6 m (25')		10.7 m (35')	15.2 m (50')		10.7 m/7.6 m (35'/25')
✔ = With remote pendant				✔			✔		✔
Powermax65 SYNC® power supplies	**Handheld**			**Mechanized**					**Handheld and Mechanized**
200–600 V CSA standard power supply	083343	083344	083347						
200–600 V CSA power supply with CPC port and voltage divider	083345	083346		083348	083349		083361	083350	083351
200–600 V CSA power supply with CPC port, voltage divider, and serial port					083352	083375*		083376*	

* with ring terminated work lead

Custom configurations – CSA

Select power supply, torch, work cable, cartridge, and other components.

Power supply option	Standard	With CPC port and voltage divider	With CPC port, voltage divider and serial port
Powermax65 SYNC 200–600 V	083371	083372	083373

Ordering information – CE/CCC

Below are the standard system configurations, which include a power supply, torch or torches, work cable, 3–4 cartridges, and product information. Some configurations may include additional items such as a remote pendant and communication cables.

CE – for use in Europe, Australia & New Zealand – RCM, Serbia, UK – UKCA, Ukraine, and other countries where accepted. CCC – for use in China.	75° hand torch		75° and 15° hand torch	180° full-length machine torch					180° full-length machine torch and 75° hand torch
Torch lead length	7.6 m (25')	15.2 m (50')	7.6 m (25')	7.6 m (25')		10.7 m (35')	15.2 m (50')		10.7 m/7.6 m (35'/25')
✔ = With remote pendant				✔			✔		✔
Powermax65 SYNC® power supplies	**Handheld**			**Mechanized**					**Handheld and Mechanized**
380–400 V CE/CCC standard power supply	083356	083357	083360						
380–400 V CE/CCC power supply with CPC port and voltage divider	083358	083359		083362	083327		083363	083364	083365
380–400 V CE/CCC power supply with CPC port, voltage divider, and serial port					083366	083377		083367	

Custom configurations – CE/CCC

Select power supply, torch, work cable, cartridge, and other components.

Power supply option	Standard	With CPC port and voltage divider	With CPC port, voltage divider and serial port
Powermax65 SYNC 380–400 V CE/CCC	083368	083369	083370

Work leads		
	Hand clamp	Ring terminal
7.6 m (25')	223135	223200
15.2 m (50')	223126	223201
22.8 m (75')	223127	223202

Cable options

Control cables						
Cable length	Remote pendant	CNC, spade connector, divided voltage	CNC, spade connector, no divided voltage	CNC, D-sub connector, divided voltage	RS-485 Serial comm, unterminated	RS-485 Serial comm, D-sub
7.6 m (25')	128650	228350	023206	223048	223236	223239
15.2 m (50')	128651	228351	023279	123896	223237	223240
22.8 m (75')	128652					

Torch options

	Hand torches		Long torches				Machine torches	Robotic/Mini		
	75°	15°	0.6 m (2'), 45°	0.6 m (2'), 90°	1.2 m (4'), 45°	1.2 m (4'), 90°	180°	180°	90°	45°
4.5 m (15')								059733		
7.6 m (25')	059726	059723			528114		059719	059734	059731	059729
10.7 m (35')							059720			
15.2 m (50')	059727	059724	528116	528117	528118	528119	059721	059735	059732	059730
22.8 m (75')	059728	059725					059722		059767	059766
30 m (100')	059770									

Powermax cartridge options

	Drag cutting	Mechanized/standoff cutting	Max removal gouging	Max control gouging	Ohmic ring kit
45 A	428927	428925	428932	428933	428895*
65 A	428931	428930			

	FlushCut™	FineCut®		HyAccess™		
		Handheld	Mechanized	Drag cutting	Gouging	Mechanized
30–45 A		428928	428926			
65 A	428952			428984	428987	528079

*Kit includes three 420580 ohmic ring clips.



Cartridge reader

The cartridge reader works with the Powermax SYNC® cartridge reader app to provide a simple process for reviewing data stored in Powermax cartridges. Part number 528083

Torches and cartridges



Learn more at www.hypertherm.com/powermax65sync

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