

# Powermax65 SYNC

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

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

Professional grade



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

# Powermax65 SYNC. 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 singlepiece cartridge, greater cutting power than higher-amperage competitors, an automated system process set-up, and SmartSYNC® torches that provide trackable utilization data.

## Powermax65 SYNC cut and gouge capacities

Thickness	Cut speed
20 mm (3/4")	500 mm/min (20 ipm)
25 mm (1")	250 mm/min (10 ipm)
32 mm (1-1/4")	125 mm/min (5 ipm)
16 mm (5/8")	
e or with automatic torch height control	
Metal removal rate	Groove profile
4.0 kg (8.8 lbs) per hour	2.9 mm (.11") D x 6.4 mm (.25") W
	20 mm (3/4") 25 mm (1") 32 mm (1-1/4") 16 mm (5/8") e or with automatic torch height control Metal removal rate

Tarah autaut**	9 kW
Torch output**	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.

# "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



# 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<sup>®</sup> 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**

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

CCC - for use in China

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

CE CCC CSA

Input voltages (± 10%)	
	200–480 V, 1-PH, 50/60 Hz
	200-600 V, 3-PH, 50/60 Hz
Ly Ly	380/400 V, 3-PH, 50-60 Hz
Input current @ 9 kW	
L→	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
L <b>,</b> L <b>,</b>	380/400 V, 15.5/15 A
Output current	20–65 A
Rated output voltage	139 VDC
Duty cycle @ 40° C (104° F)	
L,	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
L <b>, L,</b>	50% @ 65 A, 380-400 V, 3-PH
Ly Ly	100% @ 46 A, 380-400 V, 3-PH
Open circuit voltage (OCV)	
	295 VDC
	270 VDC
Dimensions with handles	483 mm D; 233 mm W; 430 mm H (19" D; 9.2" W; 17" H)
Weight with 7.6 m (25') torch	
	27.8 kg (61.7 lbs.)
	24.1 kg (52.7 lbs.)
Gas supply	Clean, dry, oil-free air or nitrogen
Optimum inlet gas pressure	7.6–8.3 bar (110–120 psi)
Minimum inlet gas pressure	5.2 bar (75 psi)
Recommended gas inlet flow rate/	Cutting:
pressure	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)
Input power cable length	3 m (10')
Power supply type	Inverter – IGBT
Engine drive requirement	15 kW or 18.7 kVa for full 65 A output
Electrical efficiency	91.2%
Recyclability	100%
Warranty	Power supply: 3-year, Torch: 1-year
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## **Ordering information**

Below are the standard system configurations, which include a power supply, torch and work cable.

CE – for use in Europe, Australia & New Zealand - RCM, Se Ukraine, and other countries where accepted. CCC – for use in China 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			
CE CCC CSA	Torch lead length	7.6 m (25')	15.2 m (50')	7.6 m (25')	7.6 (2	i m 5')	10.7 m (35')	15.2 (50	 10.7 m/7.6 m (35'/25')
	<ul> <li>= With remote pendant</li> </ul>				~			<b>~</b>	~

Powermax65 SYNC® power supplies			Handheld			Mechanized				
<b>└→ └→</b>	Standard power supply	083356	083357	083360						
L	Standard power supply		083344	083347						
L <b>,</b> L <b>,</b>	Power supply with CPC port and voltage divider	083358	083359		083362	083327		083363	083364	083365
L	Power supply with CPC port and voltage divider	083345	083346		083348	083349		083361	083350	083351
L <b>,</b> L <b>,</b>	Power supply with CPC port, voltage divider, and serial port					083366	083377		083367	
L.	Power supply with CPC port, voltage divider, and serial port				083352		083375*		083376*	

\* with ring terminated work lead

## **Custom configurations**

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

#### Power supply options

CE - for use in Europe, Australia & New Zealand - RCM, Serbia, UK - UKCA, Ukraine, and other countries where accepted.         CCC -for use in China         CSA - for use in the Americas and Asia, except China         CE       CCA	Standard	With CPC port and voltage divider	With CPC port, voltage divider and serial port
→ → Powermax65 SYNC 380-400 V	083368	083369	083370
Powermax65 SYNC 200-600 V	083371	083372	083373

#### Work leads

	Hand clamp	C-clamp	Ring terminal
7.6 m (25')	223125	223194	223200
15.2 m (50')	223126	223195	223201
22.8 m (75')	223127	223196	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 1	orches		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			400005*
65 A	428931	428930	428932	428933	428895*

	FlushCut™	Fin	eCut®	HyAccess™			
	Flusilout	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



#### Learn more at www.hypertherm.com/powermax65sync

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