



## Powermax65®

Professional-grade plasma metal cutting and gouging system for handheld cutting 3/4" and mechanized piercing 5/8".



Capacity	Thickness	Cut speed
Cutting		
Recommended	3/4"	20 ipm
	1"	10 ipm
Severance (hand cutting)	1-1/4"	5 ipm
Pierce*	5/8"	
* Pierce rating for handheld use or with automatic torch height control		
Capacity	Metal removal rate	Groove profile
Gouging		
Typical gouge	10.7 lbs per hour	.14" D x .26" W

### Maximum productivity

- Finish jobs faster with cut speeds one and a half times greater than oxyfuel on 1/2" mild steel.
- Spend less time on grinding and edge preparation due to superior cut and gouge quality.

### Easy-to-use for cutting and gouging

- No need to change the air pressure. Smart Sense™ technology ensures that it is always correctly set.
- Drag cut at full output with a patented shield that reduces dross buildup for smoother cutting.
- Tackle different jobs with multiple, easy-to-use torch styles.

### Low operating costs

- Reduce costs with long consumable life and more uptime.
- High power efficiency lowers energy consumption.

### Built and tested to withstand the harshest conditions

- Duramax® torches are designed for high-impact and heat resistance.
- SpringStart™ technology ensures consistent starting and a more reliable torch.
- Low maintenance for maximum uptime.

### Duramax standard torch styles

(for more torch options, see [www.hypertherm.com](http://www.hypertherm.com))



75° hand torch



15° hand torch

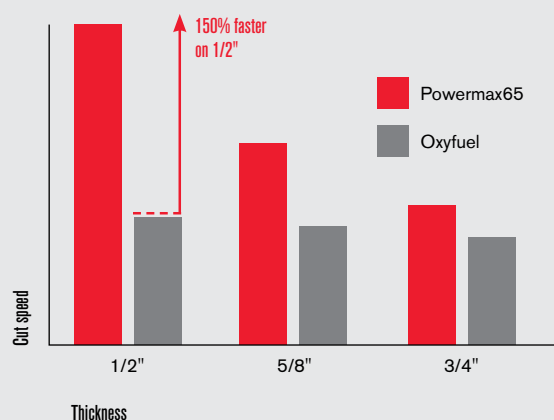


180° mini machine torch



180° full-length machine torch

### Relative cut performance on mild steel



Specifications

Input voltages	200–480 V, 1-PH, 50/60 Hz 200–600 V, 3-PH, 50/60 Hz
Kilowatt output	9 kW
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 @ 104° F (40° C)	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
Dimensions with handles	19.7" D; 9.2" W; 17.9" H
Weight w/25' torch	64 lbs
Gas supply	Clean, dry, oil-free air or nitrogen
Recommended gas inlet flow rate/pressure	Cutting: 400 scfh, 6.7 scfm @ 85 psi Gouging: 450 scfh, 7.5 scfm @ 70 psi
Input power cable length	10'
Power supply type	Inverter – IGBT
Engine drive requirement	15 kW for full 65 A output
Certifications	CSA-certified for use in the Americas and Asia, except China
Warranty	Power supplies have a 3-year warranty and torches a 1-year warranty



Ordering information

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

	75° hand torch			75° and 15° hand torch		180° full-length machine torch						180° full-length machine torch and 75° hand torch
Power supplies	25'		50'	25'	50'	25'			50'			25'
		With Eliminer filter and cover		without remote pendant		with remote pendant	without remote pendant or cables	with I/O cables (no pendant)	with remote pendant	without remote pendant	with I/O cables (no pendant)	with remote pendant
	Standard power supply	083270	083273	083271								
Power supply with CPC port and voltage divider	083275		083276	083307	083308	083277	083294		083278	083302		083300
Power supply with CPC port, voltage divider, and serial port							083328	083303			083305	

