# Hup Gitte Giff powermax 65 °

# Handheld or mechanized plasma system for cutting and gouging metal

Capacity	Thickness	Cut speed
	Handheld cut	
Recommended	3/4" (20 mm)	20 ipm (500 mm/min)
	1" (25 mm)	10 ipm (250 mm/min)
Severance	1-1/4" (32 mm)	5 ipm (125 mm/min)
Pierce	5/8" (16 mm)*	
	* Pierce rating for handheld use or with auto	ematic torch height control
	Metal removal rate	Groove profile
	Gouge capacity	
	10.7 lbs. (4.8 kg) per hour	.14" (3.5 mm) D x .26" (6.6 mm) W

# Maximum productivity

- Fast cut speeds: 150% faster than oxyfuel on 12 mm (½") mild steel.
- Superior cut and gouge quality means less time spent on grinding and edge preparation.

# Easy-to-use for cutting and gouging

- Smart Sense™ technology automatically sets correct air pressure based on torch length and operating mode.
- Handheld, straight machine and robotic torches for greater versatility and ease-of-use.
- Wide voltage tolerance improves performance on motor generators and in low-line conditions.
- Improved shield reduces dross buildup and enables smoother drag cutting for a better cut.

# Built and tested to withstand the harshest conditions

- Duramax<sup>™</sup> torches are designed for high impact and heat-resistance.
- SpringStart™ technology ensures consistent starting and a more reliable torch.
- · Low maintenance for maximum uptime it keeps on going.

# Low operating cost

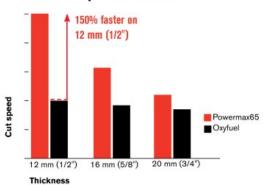
- · Long consumable life for lower cost and more uptime.
- · High power efficiency lowers energy consumption.



# **Duramax torch styles**



# Relative cut performance on mild steel



### Specifications

Input voltages	CSA 200 - 480 V, 1-PH, 50/60 Hz
	200 - 600 V, 3-PH, 50/60 Hz CE 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) @ 5.6 bar (85 psi) Gouging: 212 l/min (450 scfh, 7.5 scfm) @ 4.8 bar (70 psi)
Input power cable length	3 m (10')
Power supply type	Inverter – IGBT

# Engine-driven generator operation

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

# **Cut chart**

	60 0000	kness	Current	Maximum cut speed		
Material	(mm)	(inches)	(amps)	(mm/min)	(ipm)	
Mild steel	3	10 GA	45	5000	205	
	6	1/4	65	3900	145	
	12	1/2	65	1430	50	
	19	3/4	65	610	24	
	25	1	65	350	13	
Stainless steel	3	10 GA	45	4200	168	
	6	1/4	65	3800	120	
	12	1/2	65	1150	40	
	19	3/4	65	490	19	
Aluminum	6	1/4	65	5500	190	
	12	1/2	65	1660	60	
	19	3/4	65	770	30	

<sup>&</sup>lt;sup>1</sup> Maximum cut speeds are the results of Hypertherm's laboratory testing. For optimum cut performance, actual cutting speeds may vary based on different cutting applications. Refer to the operator manual for more details.

# Hypertherm\*

# Cut with confidence

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For more information, contact your authorized Hypertherm dealer or visit www.hypertherm.com

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#### Ordering information

Below are some of the most common system configurations which include a power supply, torch and work cable. Additional configurations are listed on our website.

		- 1	Mechanized systems				
		ndard r supply		supply with CPC pectable voltage ra	Power supply with CPC port an selectable voltage ratio		
	75° ha	nd torch	75° har	nd torch	75° and 15° hand torch	180° full-length machine toro	
Input voltages	7.6 m (25')	15.2 m (50')	7.6 m (25')	15.2 m (50')	7.6 m (25')	7.6 m (25')	15.2 m (50')
200 - 600 V CSA <sup>2</sup>	083270	083271	083275	083276	083307	083277	083278
400 V CE <sup>2</sup>	083279	083280	083284	083285	083309	083286	083287

<sup>2</sup> For use in the Americas and Asia, except China.

# Custom configurations (select power supply, torch consumable kit, torch, work cable and other components)

## Power supply options

	Standard power supply	Power supply with CPC port and selectable voltage ratio	Power supply with CPC port, selectable voltage ratio and serial interface port (RS-485)
200 - 600 V CSA	083234	083266	083267
400 V CE	083235	083268	083269

#### Starter consumable kit options

	Handheld	Mechanized	Mechanized with ohmic retaining cap
Kit	228963	228964	228965

# Component options

		Torches							Work cables			Control cables		
	Hand M		Ma	achine Robo		Robotic								
Cable length	75°	15°	180°	Mini 180°	45°	90°	180°		C-style clamp		Remote pendant	CNC spade plug <sup>4</sup>	CNC spade plug <sup>5</sup>	
4.5 m (15')			059476	059481								27		
7.6 m (25')	059473	059470	059477	059482	059464	059465	059466	223125	223194	223200	128650	228350	023206	
10.7 m (35°)			059478	059483							1			
15.2 m (50')	059474	059471	059479	059484				223126	223195	223201	128651	228351	023279	
22.8 m (75')	059475	059472	059480					223127	223196	223202	128652			

<sup>4</sup> For use with automation equipment that requires divided arc voltage.

# Torch consumable parts

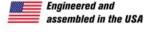
Nozzles and electrodes are available in various quantities. Contact your distributor for more information.

Consumable type	Torch type	Amperage	Nozzle	Shield/ Deflector	Retaining cap	Electrode	Swirl ring
Drag-cutting	Head	45	220941	220818	220054	220842	220857
	Hand	65	220819		220854		
Mechanized	Machine	45	220941	000047	220854 or 220953 (Ohmic)	220842	220857
		65	220819	220817			
	Machine	45	220941	000055	220854	220842	220857
Unshielded		65	220819	220955			
F0-40	Hand	45		220931	220854 or	000040	220947
FineCut*	Machine	45	220930	220948	220953 (Ohmic)	220842	220857
Gouging	Hand		000707	220798	220854	220842	220857
	Machine		220797		220834		



Greener Environmental stewardship is a core value of Hypertherm. Our Powermax products are engineered to meet and exceed global environmental regulations including the RoHS directive.

> Power supplies have a 3-year warranty and torches have a 1-year warranty.



ISO 9001:2008

<sup>3</sup> For use in countries that require CE or GOST marks.

<sup>3</sup> For use when divided arc voltage is not required.