

# powermax1650<sup>®</sup> G3 SERIES<sup>™</sup>

## High-performance portable plasma cutting system

### Powermax1650 G3 Series standard system components

- Power supply
- T100 or T100M torch
- Spare consumables
- Work cable with clamp  
15 feet (4.5 m)

### Options

- Circle cutting guide – 027668
- Leather cable covers – 024548
- Air filtration kit – 128647
- Extended work cable – 123655
- Hand heat shield – 128658
- Stationary mounting kit –  
128788

### Ordering information

	Systems part numbers		
	With 25' (7.5 m) torch	With 50' (15 m) torch	With 75' (23 m) torch
<b>200 – 600 V, 3-PH, CSA</b>			
Hand system	059275	059276	059301
Machine system	059279	059280	059303
<b>230 – 400 V, 3-PH, CE</b>			
Hand system	059288	059289	059302
Machine system	059290	059291	059304

### Specifications



Input voltages	200 – 600 V, 3-PH, 50 – 60 Hz, CSA 230 – 400 V, 3-PH, 50 – 60 Hz, CE
Input current @ 16 kW output	200/208/230/240/400/480/600 V, 3-PH; 53/51/46/44/27/22/21 A
Output voltage	160 VDC
Duty cycle @ 40° C (104° F) @ 100 amps	60% @ 200 – 208 V 70% @ 230 – 240 V 80% @ 400 – 600 V
Output for 100% duty cycle @ 40° C (104° F)	80 A @ 200 – 208 V 85 A @ 230 – 240 V 90 A @ 400 – 600 V
Maximum OCV	300 VDC
Dimensions	26.4" (671 mm) D; 16.8" (427 mm) W; 25.8" (655 mm) H
Weight with torch	128 lbs (58 kg)
Gas supply	Clean, dry, oil-free air or nitrogen
Flow rate	550 scfh; 9.2 cfm (260 l/min) at 90 psi (6.2 bar)
Flow pressure	75 psi (5.1 bar) flowing, 25' leads 80 psi (5.4 bar) flowing, 50' leads

### Standard machine interface signals

Plasma start
Transfer (start machine motion)
24 VDC (100 ma maximum)
Arc voltage (torch height control) – signal not available on rear panel connector

For more information, refer to your operator's manual.

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# Hypertherm<sup>®</sup>

The world leader in  
plasma cutting technology<sup>™</sup>

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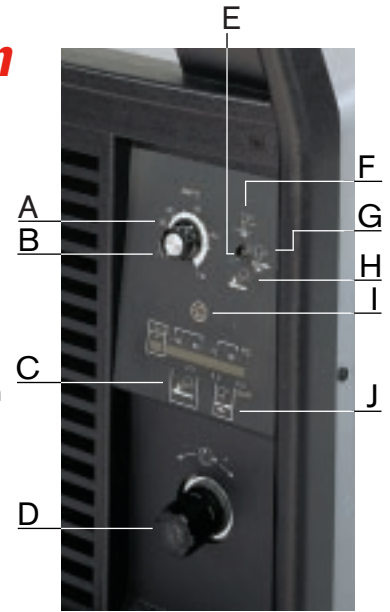
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- A: Cutting-current output control, 30 – 100 amps
- B: Gas test/set position
- C: Air pressure range, gouging mode
- D: Air pressure adjustment knob
- E: Cutting mode selector switch
- F: Pilot arc control mode
- G: Normal cutting mode
- H: Gouging mode
- I: Power on indicator
- J: Air pressure range, cutting mode



### Operating data

cnc integrated speed

	Hand torch	Machine torch
Recommended capacity	1 1/4" (32 mm)	1/2" (12 mm)
Maximum capacity	1 1/2" (38 mm)	3/4" (19 mm)
Severance capacity	1 3/4" (44 mm)	–

Material	Thickness		Current (amps)	Maximum travel speed*	
	(inches)	(mm)		(ipm)	(mm/min.)
Mild steel	26 GA.	0.5	30	638	16205
	10 GA.	3.4	40	151	3835
	1/4	6.4	60	132	3353
	1/2	12.7	100	88	2235
	3/4	19.0	100	47	1194
	1	25.4	100	28	711
	1 1/4	31.8	100	19	482
	Aluminum	1/32	0.8	30	610
1/8		3.2	40	204	5182
1/4		6.4	60	145	3683
1/2		12.7	100	108	2743
3/4		19.0	100	57	1448
1		25.4	100	33	838
Stainless steel	26 GA.	0.5	30	631	16027
	14 GA.	1.9	40	221	5613
	1/4	6.4	60	110	2794
	1/2	12.7	100	79	2007
	3/4	19.0	100	39	991
	1	25.4	100	23	584
1 1/4	31.8	100	14	356	

\*Maximum travel 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's manual for more details.