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CUTMASTER™ 151 Plasma Cutting System

1¼" (32mm) Genuine Cut

1½" (38mm) Maximum Cut

1¾" (45mm) Severance Cut

	Thermal Dynamics®	Hypertherm®	Miller®	ESAB®	
Competitive Comparison	CUTMASTER™ 151	powermax® 1650	Spectrum® 1250	PowerCut® 1500	CUTMASTER 151 Advantages
Output Range	25-100 Amps	30-100 Amps	30-100 Amps	20-90 Amps	True Widespread Cutting Range
Rated Cut Capacity	1-1/4" (32mm)	1-1/4" (32mm)	1-1/4" (32mm)	1-1/2" (38mm)	Best Cut from Thin Gauge Material to Rated Cut Capacity
Maximum Cut	1-1/2" (38mm)	1-1/2" (38mm)	1-1/2" (38mm)		
Severance Cut	1-3/4" (45mm)	1-3/4" (45mm)	1-3/4" (45mm)	1-3/4" (45mm)	
Pierce Rating	5/8" (16mm)	1/2 (13mm)	1" (25mm)		
Input Voltage	208/230V ±10%, 1ph, 50/60 Hz, 92/87A 400V ±10%, 3ph, 50 Hz, 26A 460V ±10%, 1/3ph, 60 Hz, 46/24A 600V ±10%, 3ph, 50/60 Hz, 16A	200-600V, 3ph, 50/60 Hz, CSA 230-400V, 3ph, 50/60 Hz, CE	200/230/460V, 3ph, 50/60 Hz, 85/74/37A 230/460/575V, 3ph, 50/60 Hz, 74/37/30A 220/380/415V, 3ph, 50/60 Hz, 77/45/41A	208/230V, 1ph, 50/60 Hz, 82/74A 208/230V, 3ph, 50/60 Hz, 44/40A 230/460V, 3ph, 50/60 Hz, 40/27A 400V, 3ph, 50/60 Hz, 26A 575V, 3ph, 50/60 Hz, 11A	Single Phase 230V up to 100A Output
Duty Cycle @ 104°F (40°C)	40% @ 100A @ 120 VDC 100% @ 50A @ 98 VDC	60% @ 200-208V 70% @ 230-240V 80% @ 400-600V	80% @ 100A	40% @ 1ph 60% @ 3ph	
Power Source	Inverter	Inverter	Chopper	Inverter	
Arc Starting	Start Cartridge	Internal Contact Start	HF	DC Pilot	1Torch Start Technology Eliminates HF
Auto Pilot Restart (expanded metal)	Yes	Yes	Yes	Yes	Uninterrupted Arc Starting, Excellent for Expanded Metal Cutting
Flow-Thru Design	Yes				Directs Clean Air to Principal Internal Components
Tip Saver Circuit	Yes	No	No	No	Increases Parts Life with Automatic Current Reduction if Tip Touches Surface
Over Voltage Protection	Yes	Yes	Yes	Yes	Smart Logic® Technology Protects Unit from Improper Input Voltages
Amperage Adjustment	Adjustable	Adjustable	Adjustable	Adjustable	One of the Largest Current Ranges Avail.
Torch Model	1Torch® SL100™	T-100 or T-100M with ETR	ICE-100	PT-32EH or PT-21AMX	Reliable, Proven 1Torch Torch using MaximumLife® Consumable Parts
Cutting Arc Visibility	Excellent	Good	Fair	Good	Torch Front End Design Allows for Excellent Visibility of Arc & Workpiece
Arc Length / Transfer Height	Excellent	Good	Fair	Good	Bevel, Trimming & Gouging Made Easy
Dimensions	H 18.0" (439mm) W 12.4" (315mm) L 27.4" (696mm)	H 25.8" (655mm) W 16.8" (427mm) L 26.4" (671mm)	H 38.0" (965mm) W 22.5" (571mm) L 20.0" (508mm)	H 16.5" (419mm) W 12.5" (318mm) L 32.5" (826mm)	A True Portable 100A Power Supply
Weight	83 lbs. (37.6 kg)	128 lbs. (58.2 kg)	410 lbs. (185 kg)	94 lbs. (42.7 kg)	Lowest Weight in Class
Warranty (Power Supply/Torch)	3yr. / 1yr.	3yr. / 1yr. (all parts)	3yr. / 1yr.	3yr. / 1yr.	TDC Warranty Includes Parts & Labor

*Optional Pilot Arc controller available.

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