




# Power i-MIG 140E Cross Brand Comparison\*

## Surprising Power For a Little Guy.

If you take a look around the market for a new 120V MIG, well, you'll see that there's a lot of the same stuff out there: same duty cycle, same specs, and same limitations. The only choice you really have is the color of the welder and name that is on the welder. That's not to say every welder is exactly the same of course, or that they are clones of each other, or even that one company produces most of them. No, what it means is that the selection choice is largely uninspiring. Sure there may be differences in the case, possibly a little difference in the weight, and maybe even a little difference in the MIG gun. It's not really their fault in a way. Really it's the limitations of the transformer technology that forces manufacturers to produce very similar product to each other.

Everlast has an answer to this. The Power i-MIG 140E is an economy minded IGBT Inverter based

MIG. This means that the unit puts out MORE power for a LONGER time on LESS Power. The arc is smooth and stable with no aggravating flutter as the unit heats up. Infinite adjustment on both Wire Feed and Volts make the unit more endearing and easier to get precisely the setting you want, instead of over shooting or undershooting the voltage that can happen with the tapped settings of the transformer of many 120V MIGs. The output of this class of machines is stated to be 140 amps. But when you inspect duty cycle of said units, you can see that with most 120V transformer MIGs, this is more likely to be a maximum theoretical surged Amped output rather than a practical one that is capable of sustained output for more than a few seconds. Take a careful look at the specs listed below. The contrast suddenly becomes clear when you compare them side-by side.

									
	Everlast Power i-MIG 140E	Miller Millermatic 141 907612	Hobart Handler 140 500559	Lincoln Power MIG 140C K-2471-2	Lincoln Pro MIG 140 K-2480-1	HTP MIG 130	Forney 140 MIG 309	Forney Easy Weld140 271	HF Vulcan MIGMAX 140 63616
Price:	\$399.00	\$875.00	\$569.00	\$859.00	\$549.00	\$749.00	\$520.00	\$429.00	\$649.00
Voltage Input	120V	120V	120V	120V	120V	120V	120V	120V	120V
Type of Power Source	Inverter	Transformer	Transformer	Transformer	Transformer	Transformer	Transformer	Inverter	Inverter
Stepless (Infinite) Adjustment Volts / Amps	Yes/Yes	Yes/Yes	No/Yes	Yes/Yes	No/Yes	No/Yes	No/Yes	Yes/Yes	Yes/Yes
Max Rated Amp Input at rated output	38.6A Inrush at Max Output 19.5A Rated @ 140A	? Not specified 20A Rated @ 90A	? Not Specified 20A Rated @ 90A	? Not Specified 19.5A Rated @ 90A	? Not Specified 19.5A @ 90A	? Not Specified 25A @ 115A	?Not Specified 23A @ 115A	? Not Specified	? Not Specified 20.5A @ 100A
Rated Amp Range MIG 120V	25-140A	30-140A	25-140A	30-140A	25-140A	25-130A	30-140A	10-140A	30-140
MIG Duty Cycle @ Rated Amps 120V	25% @ 140A	20% @ 90A	20% @ 90A	20% @ 90A	20% @ 90A	40% @ 60A	20% @ 115A	30% @ 110A	40% @ 100A
Max OCV	60V	30V	28V	33V	34V	30V	? Not Specified	82V	42V
Synergic/Automatically Set	No	Yes	No	No	No	No	No	No	No
Adjustable Inductance MIG	No	No	No	No	No	No	No	Yes	No
Pre/Post Flow Control	Auto	No	No	No	No	No	No	No	No
Max wire feed rated	400 IPM	360 IPM	700 IPM	500 IPM	500 IPM	600 IPM	500 IPM	197 IPM	500 IPM
Wire Roll Diameter	4" and 8"	4" and 8"	4 and 8"	4" and 8"	4" and 8"	4" and 8"	4" and 8"	4" and 8"	4" and 8"
Wire Diameter Range Stock / Optional Size Steel	.023"-.030"/.035" .6mm-.8mm/.9mm	.023"-.030"/.035" .6mm-.8mm/.9mm	.023"-.030"/.035" .6mm-.9mm	.023"-.030"/.035" .6mm-.9mm	.023"-.030"/.035" .6mm-.9mm	.023"-.030"/.035" .6mm-.8mm	.023"-.030" .6-.8mm	.023"-.030" .6mm-.8mm	.023"-.035" .6mm-.9mm
Flux Core Capable with optional drive roll	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Spool Gun Ready	Yes	Yes	Yes	Yes	Yes	No	No	No	No, Optional
Drive Roll Type	2 Roll, Cast Aluminum/Steel	2 Roll, Metal	2 Roll, Metal	2 Roll, Cast Aluminum	2 Roll, Metal	2 Roll, Polymer/Steel	2 roll, Aluminum	2 Roll, Metal	2 Roll, Metal
Gun Length	10 Ft.	10 Ft.	10 Ft.	10 Ft.	10 Ft.	7 Ft.	10 Ft.	10 Ft.	10 Ft.
Weight	30 lbs.	51 lbs.	57 lbs.	58 lbs.	50 lbs.	49 lbs.	62 lbs.	25 lbs.	42 lbs.
Input Cable Length	6 Ft.	6.5 Ft.	6.5 Ft.	Not Specified	Not Specified	15 Ft.	10 Ft.	6.5 Ft.	Not Specified
Warranty	5 Year Parts and Labor	3 Year Parts and Labor	5/3/1 Year Parts and Labor	3 Year Parts and Labor	3 Year Parts and Labor	3 Year Parts and Labor	5/3/1 Year Parts and Labor	1 Year Parts and Labor	1 Year Replacement

\*This publication is based on available information on Aug 15, 2019. It relies on other manufacturer data which is subject to change and may vary in accuracy. Prices are also subject to change and are based off of MSRP or stated prices. NA= Not Applicable. Not listed=No information available at the time of creation of this comparison.

\*\* The Power Input specifications can be deceiving and hard to read and decipher. There are two basic ways that power input requirements (amperage) are rated. There is a "Rated" input that involves an averaged amperage value. Then there is the I1MAX and I1Effective rating. I1Max is an temporary brief inrush of current during startup or at the moment of maximum amp arc strike.

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