











	PowerTIG 250EX	PowerTIG 255EXT	DYNASTY 210DX	DYNASTY 280DX	SYNCHRO-WAVE 250DX	ET 220i	HELIARC 281i	PRECISION TIG 225	PRECISION TIG 275	INVERTIG 221DV
										
Manufacturer	EVERLAST	EVERLAST	MILLER	MILLER	MILLER	ESAB	ESAB	LINCOLN ELECTRIC	LINCOLN ELECTRIC	HTP
Inverter Type	Digital IGBT	Digital IGBT	IGBT	Digital IGBT	IGBT	Digital IGBT	Digital IGBT	Digital IGBT	Digital IGBT	Digital IGBT
Output Type	AC/DC TIG, Stick	AC/DC TIG, Stick	AC/DC TIG	AC/DC TIG	AC/DC TIG, Stick	AC/DC TIG, Stick	AC/DC TIG, Stick	AC/DC TIG, Stick	AC/DC TIG, Stick	AC/DC TIG
Voltage/Phase/Hz	120/240/1/60	120/240/1/60	115/230/1/60	230V/1/50/60	230/1/60	120/1/50/60	120/1/50/60	230/1/50/60	120/230/1/60	120/240/1/60
Max Rated TIG Amps	120V: 125A 240V: 185A	120V: 125A 240V: 200A	115V: 10-125 A 230V: 10-180 A	230V: 10 - 165 A	230V:165 A	120V: 140 A	120V: 140 A	230v: 200 A	120V: 125 A 230V: 200 A	120V: 130 A 240V: 200 A
Max Rated Stick Amps	120V: 100A 240V: 150A	120V: 100A 240V: 160A	No Stick Function	No Stick Function	No Stick Function	120V: 90 A	120V: 90 A	230V:170 A	120V: 75 A 230V: 170 A	120V: 80 A 240V: 170 A
TIG Amps @ Rated Duty Cycle	120V: 125A @ 35% Duty Cycle 100A @ 60% Duty Cycle 80A @ 100% Duty Cycle 240V: 185A @ 35% Duty Cycle 145A @ 60% Duty Cycle 110A @ 100% Duty Cycle	120V: 125A @ 60% Duty Cycle 100A @ 100% Duty Cycle 240V: 200A @ 60% Duty Cycle 160A @ 100% Duty Cycle	115V: 125A @ 35% Duty Cycle 60A @ 100% Duty Cycle 230V: 180A @ 10% Duty Cycle 60A @ 100% Duty Cycle	230V: 125A @ 15% Duty Cycle	230V: 150A @ 20% Duty Cycle	120V: 140A @ 20% Duty Cycle	120V: 140A @ 20% Duty Cycle	230V: 200A @ 20% Duty Cycle	120V: 125A @ 25% Duty Cycle 100A @ 40% Duty Cycle 230V: 200A @ 25% Duty Cycle 160A @ 40% Duty Cycle	120V: 130A @ 25% Duty Cycle 200A @ 25% Duty Cycle
Stick Amps @ Rated Duty Cycle	120V: 100A @ 35% Duty Cycle 80A @ 60% Duty Cycle 60A @ 100% Duty Cycle 240V: 150A @ 35% Duty Cycle 120A @ 60% Duty Cycle 90A @ 100% Duty Cycle	120V: 100A @ 35% Duty Cycle 80A @ 60% Duty Cycle 60A @ 100% Duty Cycle 240V: 160A @ 35% Duty Cycle 130A @ 60% Duty Cycle 100A @ 100% Duty Cycle	None	None	None	120V: 90A @ 20% Duty Cycle	120V: 90A @ 20% Duty Cycle	230V: 170A @ 15% Duty Cycle	120V: 75A @ 20% Duty Cycle 65A @ 60% Duty Cycle 230V: 170A @ 20% Duty Cycle 100A @ 60% Duty Cycle	120V: 80A @ 20% Duty Cycle 240V: 170A @ 20% Duty Cycle
Max Inrush (I1MAX) Amps	120V: 34A 240V: 29A	120V: 35A 240V: 31A	N/A	230V: 35A	N/A	Stick: 37.8A TIG: 41.0A	Stick: 37.8A TIG: 41.0A	230V: 35.4A	25A	N/A
Maximum Rated (I1EFF) Input Amps	120V: 21A 240V: 17A	120V: 24A 240V: 23A	115V:26.5A 230V: 20.5A	230V: 23A	230V: 23A	Stick: 16.9A TIG: 18.5A	Stick: 16.9A TIG: 18.5A	230V: 16.5A	230V: 14.7A	120V: 24.5A 240V: 21A
OCV	TIG: 74V Stick: 74V	TIG: 90V Stick: 90V	80V	80V	80V	76.6 V	N/A	70.3V	62V	13.5V (with VRD)
TIG Output Range DC	120V: 5A-125A 240V: 5A-185A	120V: 5A-125A 240V: 5A-200A	115V: 10-125 A 230V: 10-180 A	230V: 10-165	230V: 10-165A	120V: 10-140A	120V: 10-140A	230V :5-200A	120V: 10A-125A 230V: 10-200A	120V: 10A-130A 240V: 10A-200A
TIG Output Range AC	120V: 20-125A 240V: 20-185A	120V: 20A-125A 240V: 20A-200A	115V: 10-125 A 230V: 10-180 A	230V: 10-165	230V: 10-165A	120V: 10-140A	120V: 10-140A	230V: 10-200A (HF) 230V: 30-200A (lift)	120V: 10A-110A 230V: 10-200 A	120V: 10A-120A 240V: 10A-200A
Stick Output Range DC	DC: 120V: 5A-100A 240V: 5A-150A AC: 120V: 20A-100A 240V: 20A-150A	120V: 5A-100A 240V: 5A-160A	None	None	None	120V: 10-140A	120V: 10-140A	10-170A	120V: 0-90 A 230V: 10-170 A	120V: 10-80A 240V: 10-170A
Stick Function	Auto Adaptive Arc Force Control	Adjustable Arc Force Control	None	None	None		Yes	Yes	None	Adjustable Arc Force
Stick Hot Start Type	Auto regulated	Auto Adaptive Hot Start	None	None	None		Yes	Yes	None	N/A
6010/Cellulose Capable	Limited to 6011	Limited to 6011	None	None	No		No		Limited to 6011	6010/6011
Minimum Amp DC TIG Start	5A	5A	10A	10A	10A	10A	10A	5A	10A	10A
Minimum Amp AC TIG Start	20A	20A	10A	10A	10A	10A	10A	10A	10A	10A
TIG Start Type	HF Lift TIG	HF Lift TIG	HF	HF	HF Lift TIG	HF Lift TIG	HF Lift TIG	HF Lift TIG	HF Lift TIG	HF Lift TIG
Memory	No	No	No	No	No	No	No	No	No	No
Start Amp Range	5-185A	5-200A	10-180A	10-165A	10-165A	10-140A	10-140A	5-200A	10-200A	10-200A
End Amp Range	5-185A	5-200A	10-180A	10-165A	10-165A	10-140A	10-140A	5-200A	10-200A	10-200A
Upslope	Fixed, Minimum	Fixed, Minimum	None	None	None	None	None	None	N/A	N/A
Down Slope	0-10 Seconds	0-25 Seconds	None	None	None	None	None	None	N/A	N/A
Preflow	Preset/Auto .3 Seconds	0-10 Seconds	.4 seconds	.4 seconds	.2 Seconds	Preset	Preset	Preset	N/A	N/A
Post Flow	0-25 seconds	0-25 Seconds	Auto (1 sec / 10 amps)	Auto (1 sec / 10 amps)	Auto (1 second / 10 Amps)	Preset	Preset	Preset	Auto	Auto
TIG Pulse	Yes	Yes	No	No	No	No	No	No	Yes	Yes
Standard DC Pulse Frequency	1 or 50 Hz	.5-150Hz	None	None	None	None	None	None	.1-20Hz	0-300Hz
Standard AC Pulse Frequency	1 or 50 Hz	.5-150Hz	None	None	None	None	None	None	.1-20Hz	0-300Hz
Pulse Time On (Duty Cycle)	Fixed/Preset	10-90%	None	None	None	None	None	None	Fixed	N/A
Pulse Amp Range	Fixed/Preset	5-95% of welding amps	None	None	None	None	None	None	Fixed @ 50%	N/A
AC Frequency (Hz)	20-250Hz	20-250Hz	60Hz	60Hz	60Hz	Preset	Preset	Preset	60-150Hz	5-150Hz
AC Balance Range	10-90% of Electrode Positive	30-70% of Electrode Positive	72% Electrode Negative	72% Electrode Negative	Auto	Preset	Preset	Preset	60-90% of Electrode Negative	50-90% of Electrode Negative
AC Wave Forms	Advanced Square Wave	Advanced Square Wave	Advanced Square Wave	Advanced Square Wave	N/A	Square Wave	Square Wave	Square Wave	Square Wave	Square Wave
Remote Control	2T/4T	2T/4T	2T/4T	2T/4T	2T/4T	2T/4T	2T/4T	2T/4T	2T/4T	2T/4T
Foot Pedal	Optional	Standard	Yes	Yes	Yes	Optional	Yes	Yes	Yes	Yes
Price	\$1699	\$1,349	\$5,096	\$7,376	\$4,946	\$4667	\$4,301	\$2,704	\$3,954	\$3,020

*Based upon advertised numbers at the time of publication.

*N/A - Not Available at time of publication

*NLA - No Longer Available