

Welder Bid Detailed Specifications. Reference Dynasty 210 Series

Specifications

				Amps Input at Rated Load Output, 50/60 Hz									
Welding Mode	Input Power	Welding Amperage Range	Rated Output at 60% Duty Cycle	120 V	208 V	240 V	400 V	480 V	KVA	KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
TIG (GTAW)	3-phase	2-210 A (AC)	210 A at 18.4 V	-	16	14	8	7	5.7	5.2	80 VDC	H: 12.88 in, W: 8.5 in, D: 21.88 in	47 - 50 lbs.
	1-phase	1-210 A (DC)	210 A at 18.4 V	-	28	23	14	12	5.8	5.6			
	1-phase (120V)	2-150 A (AC) 1-150 A (DC)	125 A at 15 V	26	-	-	-	-	2.8	2.7			
Stick (SMAW)	3-phase	5-210 A	160 A at 26.4 V	-	16	14	9	8	6	5.8			
	1-phase		160 A at 26.4 V	-	28	24	14	12	6.4	5.5			
	1-phase (120V)	5-100 A	90 A at 23.6 V	27	-	-	-	-	2.9	2.8			

Performance Data Requirements

Input Power	TIG (GTAW) Duty Cycle	Stick (SMAW) Duty Cycle	AC TIG Material Thickness Range	DC TIC Material Thickness Range	Stick Electrode Maximum Diameter	Generator Requirement
208-480 V	210 A-60%, 175 A - 100%	210 A-30%, 160 A-60%, 125 A-100%	.012 - .250 in	.002 - .250 in	6010: 3/16 in, 7018: 5/32 in, 7024: 5/32 in	9KW
120 V	150 A - 40%, 125 A - 60%, 100 A - 100%	100 A - 40%, 90 A - 60%, 75 A - 100%				

Additional Requirements for AC TIG

Balance control to provide adjustable oxide removal
Frequency control to adjust the width of the arc cone and improved directional control of the arc
AC Waveforms: Advanced Square, Soft Square, Sine and Triangular

Additional Requirements for DC TIG

Pulse Waveforms: Square, Sine and Triangular

Additional Requirements for AC/DC Stick

Dig control to change arc characteristics as needed

Hot start to provide positive arc starts without sticking

Stuck stick detection to turn off welding output for safety and convenience

Required Accessories

2-Wheel Trolley Cart with a single cylinder rack, chain for cylinder, cable holders torch holder storage area and filler rod storage. Reference Miller #300971

All-in-one TIG.stick welding kit with heavy duty foot control, 200 Amp TIG torch (12 foot), 200 Amp stick electrode holder and 300 Amp work clamp (15 foot), flow gauge regulator with 12 foot gas hose, gas hose coupler, torch accessory kit and Tig torch connector. Reference Miller #301549