PROTIG-315Di

Refined TIG welding for industrial applications











Quick Specs CE

- Processes:DC TIGMMA(Stick)
- Input Power: 400V/3-PH/50-60Hz
- Rated Output at 40°C (104°F):
 PROTIG-315Di:
 315A at 22.6V @60% Duty Cycle
- Applications:

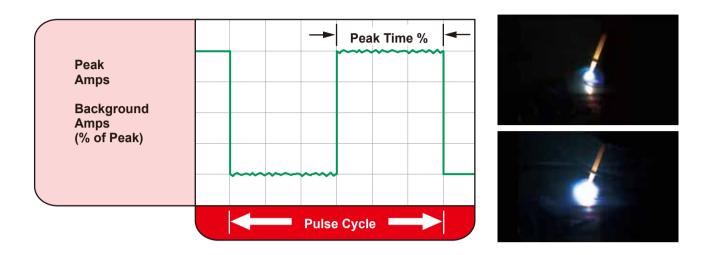
Installation and set-up
Repair and maintenance
Metal fabrication workshops
Chemical and process industry

TOP Features:

- Pulse control: Built in pulsing functions help minimize heat input on thin materials, and provide for a faster freezing weld puddle for uphill welding on curved surfaces such as process piping. The TIG pulse also helps moderate filler metal deposition for consistent bead appearance.
- High-frequency TIG starting: Makes it easy to establish an arc under a variety of conditions. Enhances quality by minimizing the potential for weld contamination created by tungsten inclusions in the weld.
- Refined arc ignition from 5A (optional 3A).
- ✓ Hot Start Function reliably ignites the electrode and melts perfectly to ensure the best quality even at the start of the seam.
- ✓ Arc Force makes it easier to weld large-drop melting electrode types at low current strengths with a short arc in particular.
- Built-in water-cooling unit offers a safe operation at high temperatures and during extended duty cycles.
- Fast Spot Arc system simply controls the spot arc parameter and offers a stable arc.
- ✓ 4T Trigger Hold allows to hold the present current by user until press the trigger again.
- Fast, precise, clean arc ignition and arc ending.
- 10 channels memory capacity.

Pulse TIG

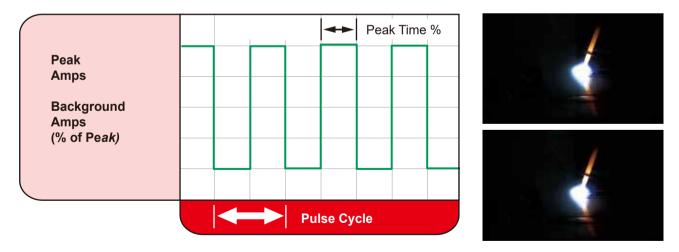
Conventional Pulsed TIG



Typically from 0.2 to 10 PPS. Provides a heating and cooling effect on the weld puddle and can reduce distortion by lowering the average amperage. This heating and cooling effect also produces a distinct ripple pattern in the weld bead. The relationship between pulse frequency and travel speed determines the distance between the ripples. Slow pulsing can also be coordinated with filler metal addition and can increase overall control of the weld puddle.

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High Speed Pulsed TIG



In excess of 40 PPS, Pulsed TIG becomes more audible than visible—causing increased puddle agitation for a better as-welded microstructure. Pulsing the weld current at high speeds — between a high Peak and a low Background amperage — can also constrict and focus the arc. This results in maximum arc stability, increased penetration and increased travel speeds.

Technical Specifications

Item No		PROTIG-315Di
Rated Input Voltage		3PH ~ 380V ±15%
Max. Load Power Capacity		TIG: 9.85KVA
		MMA: 10.38 KVA
Rated Duty Cycle(40°C) 60%		TIG: 315A/22.6V
		MMA: 250A/30V
100%		TIG: 250A/20V
		MMA: 200A/28V
Welding Current/Voltage Range		TIG:3A/10.1V~315A/22.6V
		MMA: 20A/20.8V~250A/30V
Open Circuit Voltage		70V~80V
Power Factor		0.85
Efficiency		85%
TIG	Peak Current	0.2Hz~200Hz
	Pulse Frequency	1%~100%
	Arc-starting Current	5A~315A
	Crater-filling Current	5A~315A
	Current Up-slope Time	0.15~158
	Current Down-slop Time	0.15~158
	Pre-Gas Time	0.15~158
	Flow-Gas Time	0.15~158
	Spot Arc Time	0.1S~10S
ММА	Arc Force	10A~250A
	Hot Start Time	0.1~38
	Hot Start Current	10A~250A
Dimension (LxWxH)		560x230x480mm
Weight (KG)		23KG

Water-cooling Unit: WC-100	
Operating Voltage	230V 50/60Hz
Rated Power	260W
Cooling Power	1.5KW(1L/MIN)
Maximum Pressure	0.3MPA/60HZ
Recommended Cooling Liquid	20%~40% ethanol/water
Tank Volume	6.5L

Accessories

Standard accessories



Technical data (EN 60 974-7):		
Type of cooling:	Water Cooled	
Rating:	350A DC	
	250A AC	
Duty cycle:	100%	
Tungsten electrodes:	Ø 1.6–4.0 mm	

Consumables:





Electrode holder with cable 2M Earth clamp with cable 2M

Optional accessories



Technical data (EN 60 974-7):		
liquid cooled		
350A DC		
250A AC		
100%		
Ø 1.6–4.0 mm		



Argon gas regular



Trolley:WT-100



Water-cooling unit: WC-100



Foot Pedal