PROTIG-250Di

Refined TIG welding for industrial applications











Quick Specs CE

Processes:

DC TIG MMA(Stick)

Input Power:

200-240V/1-PH/50-60Hz

- Rated Output at 40°C (104°F):
 250Di: 250A at 20V @60% Duty Cycle
- Applications:

Metal Fabrication
Maintenance and Repair
Auto Body
Light Industrial

TOP Features:

- Refined arc ignition from 3A.
- 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.

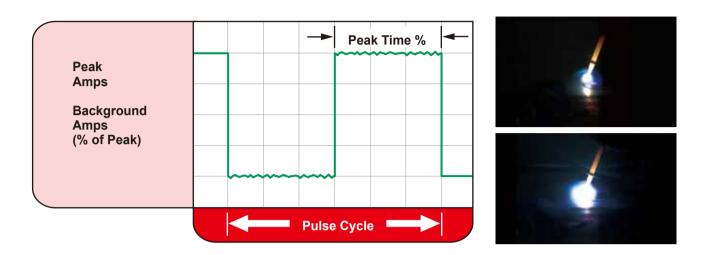
High-frequency TIG starting:

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.

- Fast Spot Arc system simply controls the spot arc parameter and offers a stable arc.
- Pre-gas and post-gas adjustment
- 4T Trigger Hold allows to hold the present current by user until press the trigger again.
- 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.
- Fast, precise, clean arc ignition and arc ending.
- 10 channels memory capacity

Pulse TIG

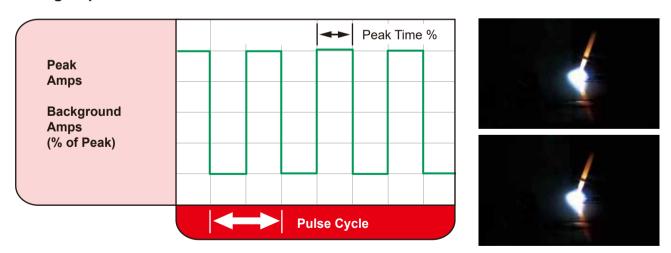
Conventional Pulsed TIG



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-250Di
Rated Input Voltage		1PH ~ 230V ±15%
Max. Load Power Capacity		TIG: 7.81 KVA
		MMA: 5.63KVA
Rated Duty Cycle(40°C) 60%		TIG: 250A/20V
		MMA: 200A/28V
100%		TIG: 200A/18V
		MMA: 160A/26.4V
Welding Current/Voltage Range		TIG: 3A/10.1V~250A/20V
		MMA: 20A/20.8V~200A/28V
Open Circuit Voltage		70V~80V
Power Factor		0.8
Efficiency		80%
TIG	Peak Current	0.2Hz~200Hz
	Pulse Frequency	1~100%
	Arc-starting Current	5A~250A
	Crater-filling Current	5A~250A
	Current Up-slope Time	0.1S~15S
	Current Down-slop Time	0.1S~15S
	Pre-Gas Time	0.1S~15S
	Flow-Gas Time	0.1S~15S
	Spot Arc Time	0.15~10S
MMA	Arc Force	10A~200A
	Hot Start Time	0.1~3S
	Hot Start Current	10A~200A
Dimension (LxWxH)		410x190x305mm
Weight (KG)		15KG

Operating Voltage 230V 50/60Hz Rated Power 260W Cooling Power 1.5KW(1L/MIN) Maximum Pressure 0.3MPA/60HZ	
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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:	Gas cooled		
Rating:	180A DC		
	150A AC		
Duty cycle:	35%		
Tungsten electrodes:	Ø 0.5–4 mm		

Consumables:





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

Optional accessories



Technical data (EN 60 974-7):			
Type of cooling:	air cooled		
Rating:	180A DC		
	130A AC		
Duty cycle:	35%		
Tungsten electrodes:	Ø 0.5–4.0 mm		



Argon gas regular



Trolley:WT-100



Water-cooling unit: WC-100



Foot Pedal