

TDW-SERIES TIG WELDING MACHINE

The intelligent power source with whole-digital Microprocessor control bases on the digital platform of DSP (Hardware main circuit control) and ARM (panel communications). It applies the concept of modular design and fully reflects its characteristic of digitization, intelligent, automation, network and green. It provides a new experience for users. It can be updated easily by software. It can add new functions by software update, not change the hardware.

TIME
WELDER
TDW series

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Main Functions



- With MMA, DC TIG, Pulse TIG, TIG spot function
- Operation interface friendly, visual and easy to operate
- Fault detection intelligently
- Rich expansion interfaces and easy to connect with all kinds of welding equipments.
- Modular design, improve the products consistency and easy to update and maintain
- Air cooling system uses temperature control technology so reduce losses and noise effectively
- Variety of arc strike mode, scratch and lift arc are suitable for all kind of welding spots
- Preset the welding parameters individual and convenient to customize special welding process
- Welding operation mode adjustment by Torch switch during the welding process

Technical Specifications

Model	DC TIG	TDW 4000	TDW 5000	TDW 6000	Factory setting
Rated input voltage (V)	Pulsed TIG	TDW 4000M	TDW 5000M	TDW 6000M	
Rated input capacity	MMA	3 phase 380V ± 15% 50/60Hz			
(X=60%)	TIG	400A/36V	500A/40V630A/44V		
Rated no-load voltage (V)		400A/26V	500A/30V630A/34V		
Rated no-load current (A)		76 ± 5%			
Cycle (s)		< 1			
Power factor		10			
Efficiency		COS φ ≥ 0.85			
Insulation grade		η ≥ 85%			
Case protection grade		F			
Duty cycle		IP23S			
MMA	Arc striking current (A)	0 400	0 500	0 630	15
	Thrust force (A)	0 150			50
	Welding current (A)	10 400	10 500	50 630	150
	Arc striking time (s)	0.1 2			0.5
TIG	Welding current (A)	5 400	5 500	20 630	150
	Slope up time (s)	0 10			2.0
	Slope down time (s)	0 10			1.5
	Pre-flow time (s)	0 10			2.0
	Post-flow time (s)	0 25			3.0
	TIG spot welding time (s)	0.1 25			0.1
	Pulse frequency (Hz)	0.1 500			100
Pulse duty factor	0.1 99%			50	
Dimensions (mm)		610 × 209 × 503	650 × 320 × 567	650 × 340 × 614	
Net weight (kg)		33	47	58	