

AC/DC Inverter TIG/MMA Welding Machine With Pulse



Clear Width Control 10% to 90%(AC Balance Control)

Waveform	Effect on Weld Bead	Weld Effect
70% EN 	Reduces Balling Action and helps maintain point 	 Bead Minimum visible oxide removal (Etching)
60% EN 	Increases Balling Action of the electrode 	 Bead Visible oxide removal (Etching)

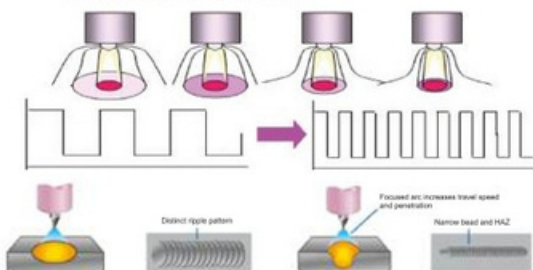
Accessories



Features

- ◆ Variety of metals can be TIG welded : Aluminium, Stainless steel, Carbon steel, Alloy steel, Copper etc
- ◆ Suitable for MMA welding with all stick electrodes
- ◆ Advanced IGBT switching technology enables higher power efficiency and more stable arc
- ◆ Protection against over-voltage and over-current
- ◆ Aluminium oxide film clean capability resulting in high aesthetic weld bead
- ◆ Adjustable slope up/down, Gas pre-flow and post-flow for adequate shield gas protection before and after welding
- ◆ Advanced pulse functions facilitate better control over heat input enabling distortion control on thin metals

Pulse Control : 0.10 to 20 Hz



- ◆ 0.1 to 10 Hz pulse will produce a distinct pattern in the weld bead
- ◆ Can be used to time filler addition, reduce distortion and improve control.
- ◆ Higher pulse helps to focus the arc for increased stability, penetration and travel speed
- ◆ Increased puddle agitation improves weld microstructure

Main Technical Parameter

TIGACDC500PR

Control method	Dual IGBT Module Controlled Pulse AC/DC TIG Welder
Applicable welding method	AC/DC TIG, MMA
Rated input/No. of phases	3-phase AC 415 V , +/- 15%
Input power frequency (Hz)	50/60
Rated input capacity (KVA)	26
Rated input current Amp	40
Output characteristics	CC(Constant current characteristics)
Maximum no-load voltage (Volt)	95
Rated output current (Amp)	500
Rated duty cycle (%)	100
Hot Start Current (Amp)	50-500
Arc Start Current (Amp)	20-500
Arc End Current (Amp)	20-500
Efficiency (%)	85
Power factor	0.93
Slope Up time (sec)	0-10
Slope Down time (sec)	0-10
Pre-flow time (sec)	0-10
Post-flow time (sec)	0-60
Pulse frequency (Hz)	0.10-20
Peak Current (Amp)	20-500
Base Current (Amp)	5-500
Pulse duty cycle (Peak time %)	10-90
AC Frequency (Hz)	20-200
Clear Width (%)	10-90
Clear Depth (%)	-50 to +50
AC Waveform Selection	Standard AC Waveform
	Sine Wave Waveform
	Triangular Waveform
No. of Memory Channels	10
Ingress Protection	IP23
Insulation class	H
Dimension(LxWxH)(mm)	775x550x810
Weight (Kg)	95