



Direct Current Output



50/60Hz Input Power Source



Forced Air Cooling



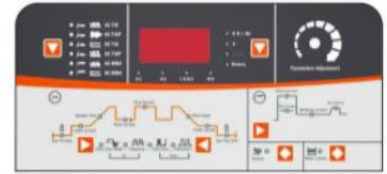
Energy Saving And Environment Friendly



Job Save Function



Electro Magnetic Compatibility



## Features

- IGBT module inverter technology
- Digital control mode and man-machine interaction for easy and convenient operation.
- Complete auto protection with 6 sets parameters protection to guarantee high reliability.
- Useful welding process management function to store 5 sets of most frequently used welding parameters.
- Excellent MMA welding performance, accurate control on arc start current and arc force; easy arc start, less spatter, and fine welding bead.
- Multiple 15 TIG modes to meet various welding demands.
- Adjustable balance and pulse frequency when under AC TIG to achieve more refined welding.
- Extensible synchronized TIG welding functions with two machines.
- Easy auto welding functions compatible with robot and other automation equipment.
- International Standard IEC 60974-1



## Specifications

### Standard

- AC-TIG/AC PULSE TIG/AC MMA
- DC-TIG/DC PULSE TIG/DC MMA
- AC Square weave TIG, etc.
- O.H. & O.C indicator
- Digital display meter
- Adjustable Post Flow time
- Adjustable hot start/arc force



### Accessories

#### Standard

- 1pc 5m WP-12 TIG torch water cooled
- Earth clamp 500A+50mm<sup>2</sup> × 2m cable + quick plug

Model	TIG 500 AC/DC E312
Input power source	3-AC380V + 15% 50/60Hz
Rated input current (A)	29.6
Rated input power capacity (KVA)	21
Rated output (A/V)	TIG: 500/30, MMA: 400/36
Rated duty cycle (%) @40 c	60
No-load voltage (V)	68
MMA Output current (A)	DC: 10-410 AC: 20-410
Arc start range (A)	DC: 10-410 AC: 20-410
Arc force range (A)	0-250
AC frequency range (Hz)	50
TIG Initial current (A)	DC: 10-510 AC: 20-250
Peak current (a)	DC: 10-510 AC: 20-510
Background current (A)	DC: 10-510 AC: 20-510
Crater current (A)	DC: 10-510 AC: 20-250
DC pulse frequency (Hz)	0.5-200
DC pulse duty ratio (%)	10-90
AC frequency (Hz)	20-70
+/- half wave duty ratio (%)	10-60
AC pulse frequency (Hz)	0.5-5.0
AC pulse duty cycle (%)	10-90
Up/Down-slope (S)	0-60
Pre-flow time (S)	0-15.0
Post-flow time (S)	2-20.0
Sport welding time (S)	0.0-8.9
Arc starting	HF
Efficiency (%)	85
Protection class	IP2 1S
Insulation class	F
Dimensions (mm)	650 x 34 x 783
Weight (Kg)	63