

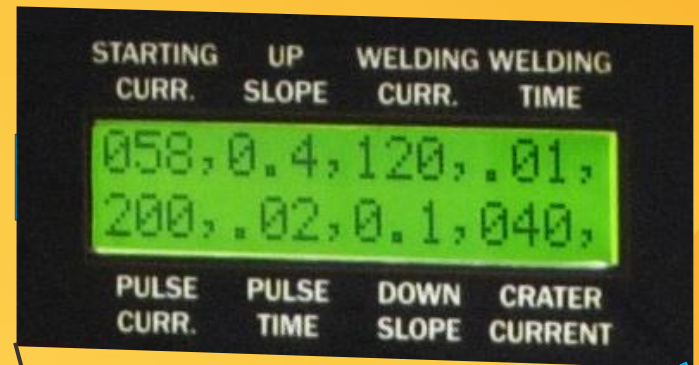
# Sohal



## Salient Features:

- Digital Keypad for Exact setting of Pulse parameters
- H.F. Ignition
- Power Saving High Efficiency
- Power Factor Near Unity
- Based On Digital Inverter Technology
- Reliable IGBT Powered
- Constant Current During Near And Far Welding
- Compensation Of Supply Volts
- Generator Compatible
- Light Weight, Easy To Carry
- Heavy Duty For Continuous Work
- Wide Supply Voltage Range
- Over-current & Over-heat Protected
- Very Low Stand-by Current

## PULSE TIG



Power Saving Inverter PULSE Tig Welding

Model : IRPT300

**DURABLE DESIGN WITH 3-LEVEL PROTECTION OF IGBT'S**

- Inverter TIG welding machines gained popularity due to their power saving nature, better power factor, good arc and better constant current features over all previous techniques. And it takes less space and light weight.
- The IRPT series inverter Pulse Tig welding machines are fully digital controlled and H.F. start. The Power control is based on fast switching IGBT<sup>(1)</sup> devices. Suitable for both high quality Plane Tig, Pulse Tig and manual arc welding. The digital display with keypad in front of machine helps better and exact setting of Pulse Tig parameters and Post Flow time. Machine have three modes plane tig, pulse tig and manual arc welding selectable from digital keypad.
- These machines are designed and developed in our company. We test all machines individually for duty cycle and performance. These machines are suitable for work on generator.
- These new technology machines have good output characteristics, Silent, smooth and stable arc from the small current to rated current for welding of various thickness jobs.

#### Advantage:

The main advantage of Pulse TIG welding is the huge range of different metals & alloys and specially best for thin parts.

#### Application:

Applicable in good welding of Mild Steel, Stainless Steel, Alloy Steel, Brass , Copper, Nickel, Silver, Lead, Titanium and many others.

#### Field of Use:

The principal area of use is for welding thin and medium thicknesses of metals in industries like Machinery and Plant Construction, Cycle Part, Auto Parts, Kitchen Accessories and Fabrication of Door, Window, Railing and for welding root passes on joints with thicker cross-sections.

### TECHNICAL SPECIFICATIONS:

ITEM	UNIT	IRPT300	IRPT400	IRPT500
Supply	Volt,Ø,Hz	415, 3,50/60	415	415
Max. Load	KVA	10	13	17
Power Factor	Cos Ø	.99	.99	.99
No-load Volt	Volt	70	70	75
Pre-flow	sec.	.1 to 2	.1 to2	20
Starting Current	Ampere	20 to 300	20 to 400	20 to 500
Weld Current	Ampere	20 to 300	20 to 400	20 to500
Pulse Current	Ampere	20 to 300	20 to 400	20 to 500
Crater Current	Ampere	20 to 300	20 to 400	20 to 500
Up-slope	sec.	0.1 to 5.0	0.1 to 5.0	0.1 to 5.0
Down-slope	sec.	0.1 to 5.0	0.1 to 5.0	0.1 to 5.0
Welding Time	sec.	.01 to 1.0	.01 to 1.0	.01 to 1.0
Pulse Time	sec.	.01 to 1.0	.01 to 1.0	.01 to 1.0
Post-Flow	sec.	0.1 to 5.0	0.1 to 5.0	0.1 to 5.0
Duty TIG	%	100	100	100
Duty MMA	%	60	60	60
Control	Type	DIGITAL	DIGITAL	DIGITAL
IP	Class	21	21	21
Weight	Kg	39	41	52
Dimension	L X W X H (cm)	56 X 33 X 53	56 X 33 X 53	60 X 33 X 53

Accessories: Tig Torch 4m, Work lead 2m, Argon Regulator & Flow-meter

1) IGBT's are advance version of mosfet's

# SOHAL ELECTRIC WORKS

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