

# INDUSTRIAL PORTABLE SMAW WELDER



## DISCOVER 300 TIG

Arc/Stick/SMAW/TIG/GTAW Welding

### TECHNICAL SPECIFICATION

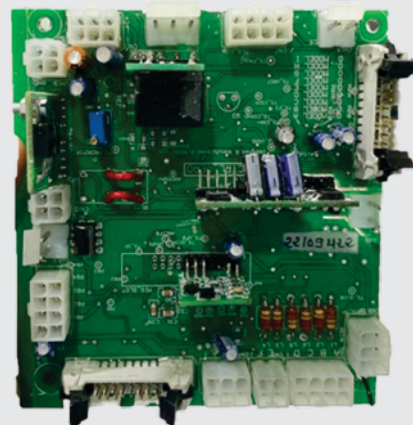
Input Specifications	Mechanical Specifications	Functional Specifications
Input Supply: 330-500VAC, 3Ph, 50/60Hz Input @ 300A / 32V: 11.8KVA / 15.1HP, 16.5A@415V Input @ 205A / 28V: 7.5KVA / 9.1HP, 10A@415V Input @ 190A / 27V : 6.4KVA / 8.2HP, 9A@415V	Dimensions (LxWxH): 565x270x450mm ( Power source ) Weight: 35kg Dimensions (LxWxH): 1090X400X1050mm ( Power source + cooling unit + trolley) Weight: 82.8kg	Preflow Gas Time: 0-10secs Postflow Gas Time: 0-10secs Upslope Time: 0-10secs Downslope Time: 0-10secs Arc Force: 0-100% Hot Start: 0-100%
Output Specifications	Protection Features	
Output Current Range: 10A to 400A Duty Cycle @ 50%: 300A / 32V Duty Cycle @ 100%: 205A / 28V Open Circuit Voltage (OCV): 75V-95V DC	<b>OT-Over Temperature</b> (when internal temperature more than 70oC). <b>SP-Phase loss protection</b> (when any phase is not present). <b>UV/OV-Input supply protection</b> (when supply is <330V or >500VAC). <b>OC-Over Current</b> (when over current flows through IGBT).	

## FUNCTIONAL FEATURES

- ARC Force** for smooth and crisp welds.
- Hot Start** Helps in rusted and dirty welds.
- Preflow/Postflow Gas** Ensuring weld quality and complete gas coverage.
- Upslope/Downslope** for smooth current transitions.
- Gas Test** for testing Gas flow rate prior to welding.
- 2T/4T** trigger settings for welder comfort during long seams.

## OTHER FEATURES

- Remote** Feature for controlling welding current using a hand held remote or foot pedal.
- IP65 Panel** parts dust and water protected front panel switches & buttons.
- IP21 Rated** chassis suitable for outdoor as well as indoor use.
- Steel Body** for long life and rugged usage.
- Terminals** Lug type heavy duty rated.



A four step process is followed to make every single PCB used in the machine, moisture and dust proof. This increases the life of PCB and also increases its reliability. It also ensures proper functioning of component in PCB by preventing current bleed.



1. PROTECTION INDICATORS
2. LOCAL/REMOTE
3. STICK / TIG SWITCH
4. PREFLOW GAS
5. UPSLOPE/ARC FORCE
6. CURRENT SETTING
7. POSITIVE TERMINAL
8. TORCH TRIGGER
9. GAS OUTLET
10. VOLTAGE/CURRENT DISPLAY
11. 2T / 4T SWITCH
12. GAS TEST
13. POSTFLOW GAS
14. DOWN SLOPE/HOT START
15. REMOTE
16. NEGATIVE TERMINAL



A) Discover 400 Glory Tig power source

Order Code : APS - D300TIG



B) Discover 400 Glory Tig power source with Cooling Unit Trolley

Order Code : APS - D300TIG - WC50

Order Code : APS - D300TIG - WC50FS



1) Electrode Holder 400A with 3 meter 25sqmm cable

Order Code: AEH400A3M25SQ



2) Earthing Clamp 400A with 3 meter 25sqmm cable

Order Code: AEC400A3M25SQ



3) TIG Welding Torch Gas Cooled 200Amp

Order Code: AGC2004M (4mtr) / AGC2008M (8mtr)

4) TIG Welding Torch Gas Cooled 300Amp

Order Code: AGC3004M (4mtr) / AGC3008M (8mtr)

5) TIG Welding Torch Water/Liquid Cooled 400Amp

Order Code: AWC4004M (4mtr) / AWC4008M (8mtr)



6) Argon Regulator Single Stage Double guage

Order Code: AREGSSDG-ARG

7) Gas Flow Meter

Order Code: AGASFLOWMTR



8) TIG Torch Cooling unit WC50 - with Cast Iron Pump

Order Code: APS-WC50

9) TIG Torch Cooling unit WC50FS Stainless steel Pump, Inbuilt Flow-switch with indication and Fault output for TIG torch protection

Order Code: APS-WC50FS

AUTHORISED DEALER :



**ADVANCED POWER SOURCES<sup>®</sup> LIMITED**

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