INDUSTRIAL HEAVY DUTY DIGITAL WELDER





APOLLO 600

ans

GTAW / TIG / Pulse TIG Welding SMAW / ARC / Stick Welding

TECHNICAL SPECIFICATIONS

Input Specifications

Input Supply: 330 - 500VAC, 3Ph, 50/60Hz Input @ 600A / 44V: 33KVA / 42HP, 46A@415V Input @ 465A / 39V: 23KVA / 28.5HP, 31A@415V Input @ 380A / 35V: 16.5KVA / 21HP, 23A@415V

Cooler power consumption: 0.4HP (Peak)

Output Specifications

Output Current Range: 10A to 600A Duty Cycle @ 60%: 600A / 44V Duty Cycle @ 100%: 465A / 39V Open Circuit Voltage (OCV): 75V - 95V DC

Cooling unit:

Tank Capacity: 50Litre Cooling type: Forced Air on Radiator Heat Exchange: Radiator with copper tubing Flow switch contact: Normally open (Close when coolant flow)

Mechanical Specifications

(Power source with wheels) Dimensions (LxWxH): 650x345x760mm Weight: 69.8KG

(Power source + cooling unit + trolley) Dimenstions (LxWxH): 1090x450x1265mm Weight: 116KG

TIG Cycle Parameters

Preflow Gas time: 0-25secs Postflow Gas time: 0-25secs Initial Amps: 10A-600A Final Amps: 10A-600A Upslope time: 0-25secs Downslope time: 0-25secs Peak Current: 10A-600A Base Current: 10A-600A Pulse Fequency: 0 to 50 Hz Peak time: 10%-90%

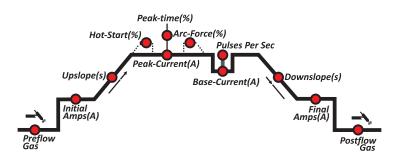
Protection Features

OT - Over Temperature (when internal temperature more than 70°C)

SP - Phase loss protection (when any phase is not present)

UV/OV - Input supply protection (when supply is <330V or >500VAC)

- OC Over Current (when over current flows through IGBT)
- FL External Fault (for connecting PLC/Torch cooling unit fault signal)

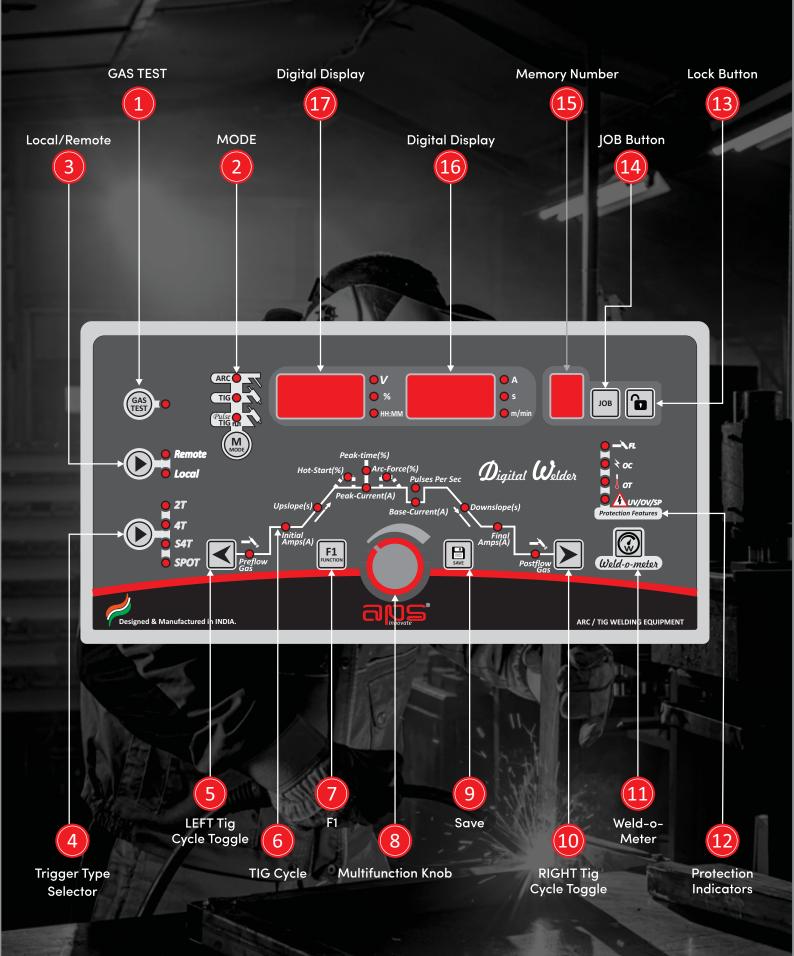


A Complete TIG Cycle with all parameters adjustable precisely using a single knob. All thanks to our "DigiCon Technology". Every parameter being set is visible on the display to the user making the interface very simple and user friendly.

Its no secret that power components like IGBTs, Diodes and Rectifiers need to be operated reliably in harsh environments. That's why APS takes extra measures in designing its products, by isolating these components completely with steel compartments, we ensure their reliability when operating in extreme environments.



Front Panel Description



Front Panel Description

- 1. GAS TEST: Check and set the gas flow rate without welding. This has an auto shut of after 10 sec.
- 2. MODE: Toggle button to select welding process of ARC, TIG, Pulse-TIG.
- 3. Local/Remote: Toggle button to select Amp control using Panel or Remote.
- 4. Trigger Type Selector: Toggle button for select 2T, 4T, S4T, Spot mode of torch trigger operation.
- 5. LEFT Tig cycle Toggle: Tig cycle parameter toggle to the left.
- 6. TIG Cycle: Tig cycle with adjustable parameter indicator.
- 7. F1: Funtion button to set, remote selection, spot timer and automation functions.
- 8. Multifunction Knob: Encoder to set parameters.
- 9. Save: Save button to return to save parameter.
- 10. RIGHT Tig cycle Toggle: Tig cycle parameter toggle to the right.
- 11. Weld-o-meter: Used for checking actual welding hours. Track welder productivity.
- 12. Protection Indicators: Fault/Protection indicators.
- 13. Lock Button: Lock button to Lock an unlock the Panel using a 3 digit digital password.
- 14. JOB Button: 10 programmable memories to store welding parameter for ready reference and usage.
- 15. Memory Number: Memory number indication to select the storage location.
- 16. Digital Display: Digital display to show Current (A), Time (s) and speed (m/min).
- 17. Digital Display: Digital display to show VItage (V), Percentage (%), Weld-o-meter time (HH:MM).

An Ergonomic digital front panel enhances ease of operator and ensures a fatigue free operation for hours together. An easy to understand operating panel helps the welder to learn quickly and adapt to the machine. Gone are the days when the welder has to adjust and tune himself according to the machine, the APOLLO series makes sure that the welder is able to quickly set the machine and concentrate his core job "WELDING". APOLLO has also ensured welder comfort by the 4T, S4T and Spot trigger control.



The Complete TIG Welding Package

Gas cylinder trolley with EASY-LOAD system is a special tilting base for loading cylinder by one person only. No need of lifting the cylinder to load in the trolley. Just tilt and push.

Weld-O-Meter Record welding arc timer and view it on display. Ensure productivity.

Torch Coolant protection Flow switch indication to protect TIG Torch from damaging due to lack of coolant flow.

• Storage Programs Upto 10 Storage programs for easy recalling of parameters.

Ergonomic Trolley
 Gas cylinder trolley with EASY-LOAD system
 Complete welding setup in one trolley for easy mobility

IN-Built HF Unit High frequency non touch start feature

Spot / Tack Timer Set timer for Tacks and ensure even looking tacks.

IP-23 Rated All Steel Enclosure Suitable for outdoor and tough industrial environments.

VRD for welder safety Reduces Open Circuit Voltage to ensure welder safety.

Fan -On-Demand FOD reduces power consumption and dust ingress.

Foot-Pedal / Remote Improves welder ease by giving complete control Option to select Peak Current or Base Current via remote.

Heavy Output Terminals Lug type / Euro heavy duty rated terminals



LOCK

w

IGBT

Module

3

PHASE

CC

DC



1) Apollo 600 Digital Pulse Tig Power Source

📜 Order Code: APS-A600



2) Apollo 600 Digital Pulse Tig Power Source with Cooling Unit Trolly

📕 Order Code: APS-A600-WC50FS

ACCESSORIES AND PACKAGES

1) Electrode Holder 600A with 3 meter 70sqmm cable Porder Code: AEH600A3M70SQ	2) Electrode Holder 400A with 3 meter 50sqmm cable Proder Code: AEH400A3M50SQ
3) Earthing Clamp 600A with 3 meter 70sqmm cable I Order Code: AEC600A3M70SQ	4) Earthing Clamp 400A with 3 meter 56sqmm cable I Order Code: AEC400A3M50SQ
 5) TIG Welding Torch Water/Liquid Cooled 600 Order Code: AWC6004M (4mtr) / AW 6) TIG Welding Torch Water/Liquid Cooled 400 Order Code: AWC4004M (4mtr) / AW 7) TIG Welding Torch Gas Cooled 300Amp Order Code: AGC3004M (4mtr) / AG 8) TIG Welding Torch Water/Liquid Cooled 400 Order Code: AWP18-4M(4mtr)/AWP1 	VC6008M (8mtr) DAmp VC4008M (8mtr) DC3008M (8mtr) DAmp
9) Argon Regulator Single Stage Double Guage I Order Code: AREGSSDG-ARG	10) Gas Flow Meter) Order Code: AGASFLOWMTR
11) TIG Torch Cooling unit WC50FS Stainless steel Pump, Inbuilt Flow-Switch with indication and Fault output for TIG torch protection 100 Litre Tank. The Order Code: APS-WC100FS	12) TIG Torch Cooling unit WC50FS Stainless steel Pump, Inbuilt Flow-Switch with indication and Fault output for TIG torch protection) でder Code: APS-WC50FS

AUTHORISED DEALER :



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BUREAU VERITAS Certification