



## INDUSTRIAL HEAVY DUTY GTAW WELDER

### GENESIS 600HD TIG

ARC/Stick/SMAW Welding  
GTAW/TIG Welding  
& Gouging



# GENESIS 600HD TIG

# TECHNICAL SPECIFICATION

## Input Specifications

Input Supply: 345-500VAC , 3Ph , 50/60Hz, Generator Compatible.  
Input @ 600A / 44V : 33KVA / 42HP, 46A@415V  
Input @ 465A / 39V: 23KVA / 28.5HP, 31A@415V  
Input @ 380A / 35V: 16.5KVA / 21HP , 23A@415V

## Output Specifications

Output Current Range: 10A to 600A  
Duty Cycle @ 60%: 600A / 44V  
Duty Cycle @ 100%: 465A / 38V  
Open Circuit Voltage (OCV): 75V-95V DC

## 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 <345V or >500VAC).  
OC-Over Current (when over current flows through IGBT)  
FL-External Fault (for connecting PLC/Torch cooling unit).

# 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 prior to welding.

**Weld-O-Meter** for measuring welding arc hours and ensuring welder productivity.

**FL Protection** external / cooling unit fault.

**2T/4T** trigger settings for welder comfort during long seams.

# OTHER FEATURES

**Fan-On-Demand** feature reduces power consumption and dust ingress.

**VRD** Safety reduces Open Circuit Voltage to ensure welder safety.

**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.

**IP23 Rated** chassis suitable for outdoor as well as indoor use.

**Steel Body** for long life and rugged usage.

**Terminals** Lug type heavy duty rated.

## Mechanical Specifications

Dimensions (LxWxH): 650X345X760mm  
( Power source with wheels )  
Weight: 69.8kg

Dimensions (LxWxH): 1090X400X1265mm  
( Power source + cooling unit + trolley )  
Weight: 116kg

## Functional Specifications

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%

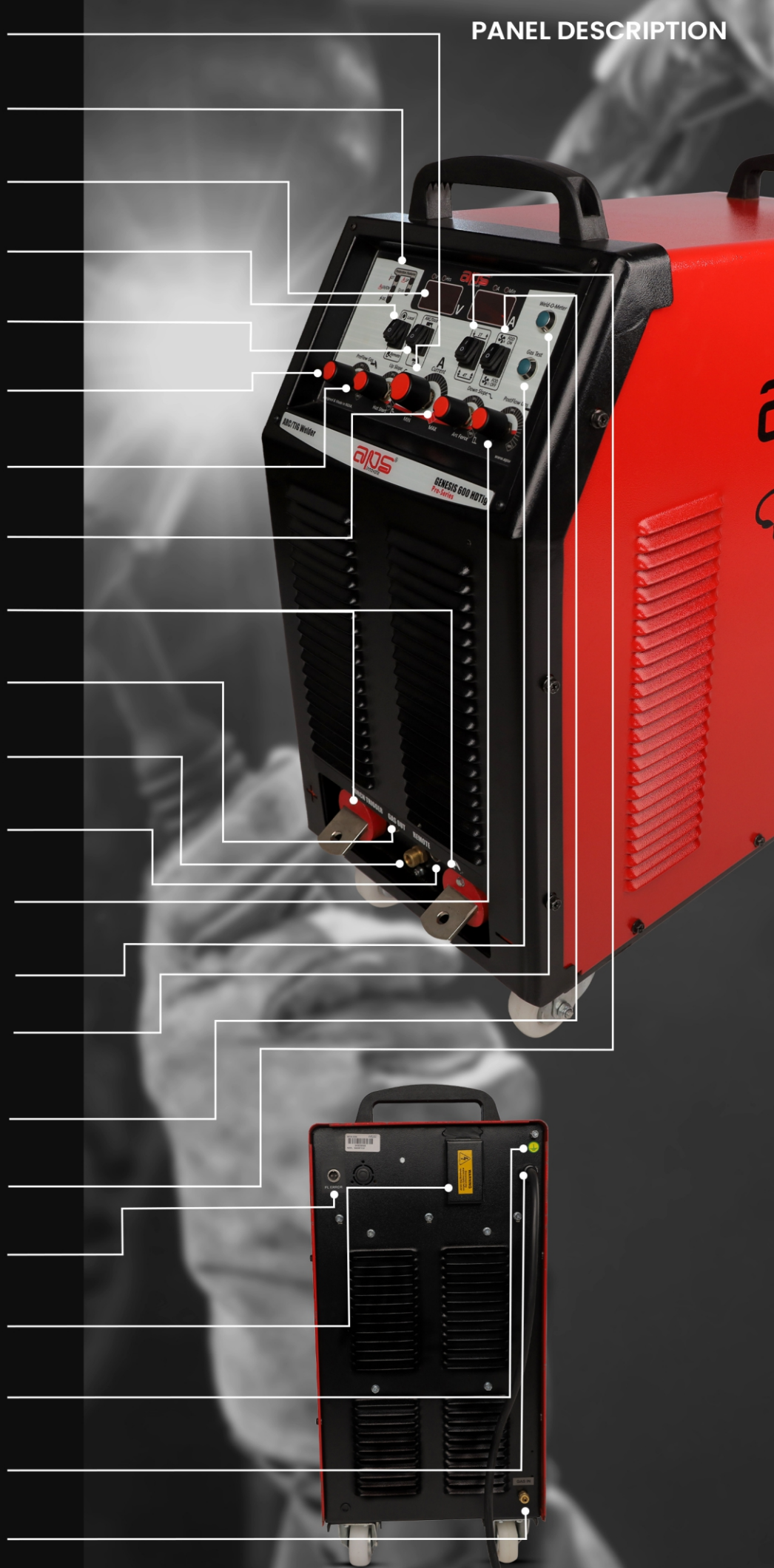


It's no secret that power components like IGBTs, diodes and rectifiers need to be operated reliably in harsh environments. That's why APS takes extra measures in designing its products: by isolating these components completely with steel compartments, we ensure their reliability when operating in extreme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



## PANEL DESCRIPTION

- CURRENT SETTING
- PROTECTION INDICATORS
- VOLTAGE/CURRENT DISPLAY
- LOCAL/REMOTE
- STICK / TIG SWITCH
- PREFLOW GAS
- UPSLOPE/ARC FORCE
- DOWN SLOPE/HOT START
- POSITIVE/NEGATIVE TERMINAL
- TORCH TRIGGER
- GAS OUTLET
- REMOTE
- POSTFLOW GAS
- GAS TEST
- WELD-O-METER
- FOD ON/OFF
- 2T / 4T SWITCH
- EXTERNAL FAULT
- MCB SWITCH
- EARTHING
- INPUT CABLE
- GAS INLET





A) Genesis 600HDTig power source with wheels



Order Code: APS-G600HDTIG



B) Genesis 600HDTig power source with Cooling Unit Trolley



Order Code: APS-G600HDTIG-WC50FS



Order Code: APS-G600HDTIG-WC100FS

## ACCESSORIES AND PACKAGES



1) Electrode Holder 600A with 3 meter 70sqmm cable



Order Code: AEH400A3M70SQ

2) Electrode Holder 600A with 3 meter 50sqmm cable



Order Code: AEH400A3M50SQ



3) Earthing Clamp 400A with 3 meter 70sqmm cable



Order Code: AEC400A3M70SQ

4) Earthing Clamp 400A with 3 meter 50sqmm cable



Order Code: AEH400A3M50SQ



5) TIG Welding Torch Water/Liquid Cooled 400Amp



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

6) TIG Welding Torch water/liquid cooled 600A



Order Code: AWC6004M (4mtr) / AWC6008M (8mtr)



7) Argon Regulator Single Stage Double gauge



Order Code: AREGSSDG-ARG

8) Gas Flow Meter



Order Code: AGASFLOWMTR



9) TIG Torch Cooling unit WC100FS (Stainless steel Pump, Inbuilt Flow-switch with indication and Fault output for TIG torch protection) 100 Litre Tank.



Order Code: APS-WC100FS

10) TIG Torch Cooling unit WC50FS (Stainless steel Pump, Inbuilt Flow-switch with indication and Fault output for TIG torch protection) 50 Litre Tank.



Order Code: APS-WC50FS

Authorised Dealer :



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

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