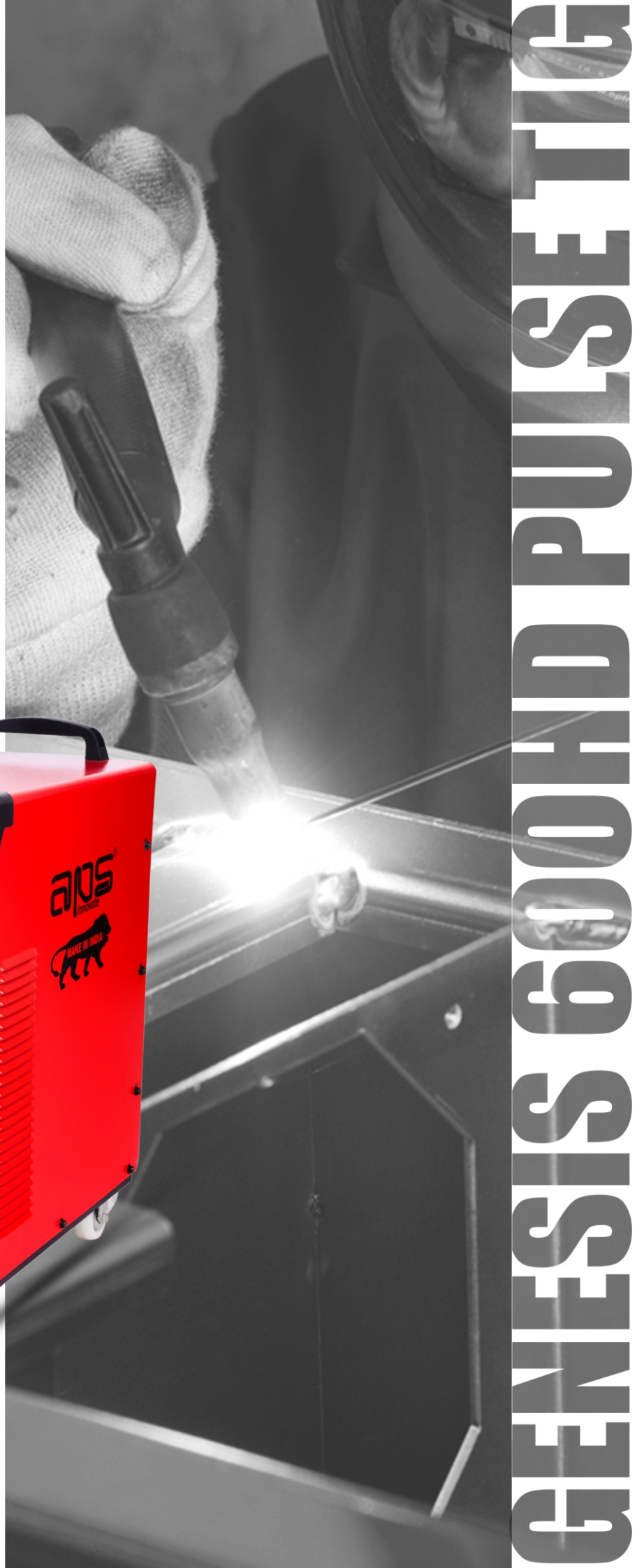




INDUSTRIAL HEAVY DUTY GTAW WELDER

GENESIS 600HD PULSE TIG

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



GENESIS 600HD PULSE 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).

Mechanical Specifications

Dimensions (LxWxH): 650X345X760mm
(Power source with wheels)
Weight: 70.5kg
Dimensions (LxWxH): 1090X400X1265mm
(Power source + cooling unit + trolley)
Weight: 117kg

Functional Specifications

Peak current : 10 to 600A
Base current : 10 to 600A
Preflow Gas Time: 0-10secs
Postflow Gas Time: 0-10secs
Upslope Time: 0-10secs
Downslope Time: 0-10secs
Pulse frequency : 0 to 10Hz
Pulse time : 10 to 90%
Arc Force: 0-100%
Hot Start: 0-100%



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.

Pulse frequency 0 to 10 Hz with adjustable pulse time of 10 to 90%.

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.

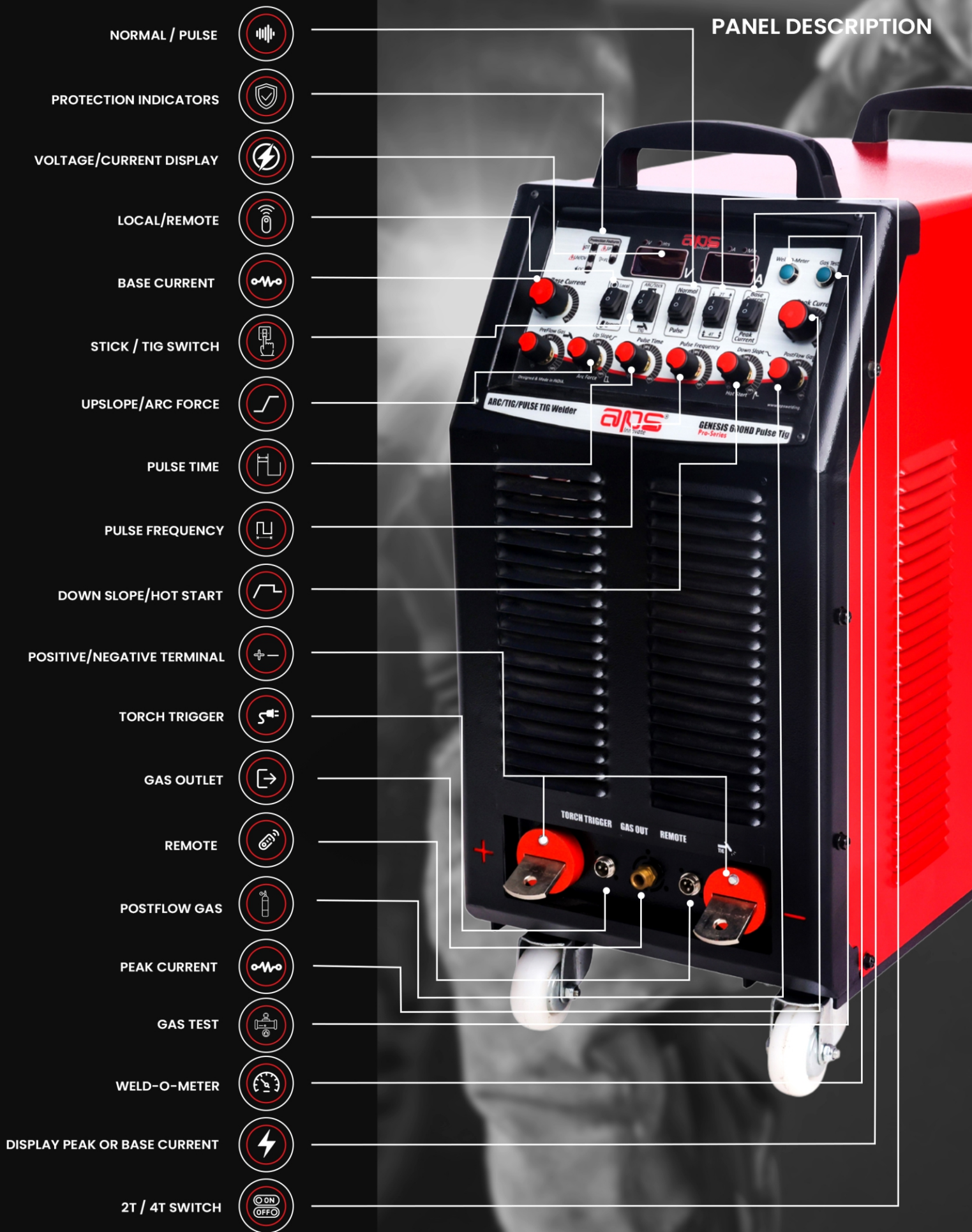
Steel Body for long life and rugged usage.

Terminals Lug type heavy duty rated.



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





A) Genesis 600HDPulseTig power source with wheels

 Order Code: APS-G600HDPULSETIG



B) Genesis 600HDPulseTig power source with Cooling Unit Trolley

 Order Code: APS-G600HDPULSETIG-WC50FS

 Order Code: APS-G600HDPULSETIG-WC1000FS

ACCESSORIES AND PACKAGES



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

 Order Code: AEH400A3M70SQ

2) Electrode Holder 400A 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: AEC400A3M50SQ



5) TIG Welding Torch Water/Liquid Cooled 400Amp

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

6) TIG Welding Torch water/liquid cooled 600Amp

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



7) Argon Regualtor Single Stage Double guage

 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 :



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