

# INDUSTRIAL PORTABLE SMAW WELDER

## DISCOVER 300

SMAW/ARC Welding



### TECHNICAL SPECIFICATION

#### Input Specifications

Input Supply: 330-500VAC, 3Ph, 50/60Hz  
Input @ 300A / 32V: 11.8KVA / 15.1HP, 16.5A@415V  
Input @ 190A / 27V: 6.4KVA / 9.1HP, 9A@415V

#### Mechanical Specifications

Dimensions (LxWxH): 565x270x450mm  
Weight: 31kg

#### Functional Specifications

Arc Force: 0-100%  
Hot Start: 0-100%

#### Output Specifications

Output Current Range: 10A to 300A  
Duty Cycle @ 60%: 300A / 32V  
Duty Cycle @ 100%: 205A / 28V  
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 <330V or >500VAC).  
**OC-Over Current** (when over current flows through IGBT).

## FUNCTIONAL FEATURES

**ARC Force** for smooth and crisp welds.

**Hot Start** Helps in rusted and dirty welds.

## OTHER FEATURES

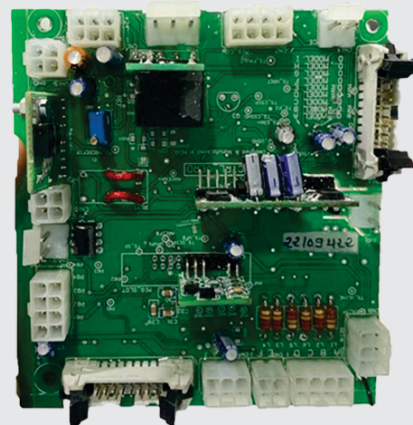
**Remote** Feature for controlling welding current using a hand held remote or foot pedal.

**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. ARC FORCE
- 5. CURRENT SETTING
- 6. POSITIVE TERMINAL
- 7. TORCH TRIGGER
- 8. VOLTAGE/CURRENT DISPLAY
- 9. HOT START
- 10. REMOTE
- 11. NEGATIVE TERMINAL



A) Discover 300 power source

Order Code : APS - D300



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) Electrode Holder 400A with 3 meter 35sqmm cable

Order Code: AEH400A3M35SQ



4) Earthing Clamp 400A with 3 meter 35sqmm cable

Order Code: AEC400A3M35SQ

AUTHORISED DEALER :