

# SYNERGIC300

UNIarc™

## FULL DIGITAL WELDER

**SYNERGIC300** is a digital multiprocess inverter designed to offer compact versatility. This 3 phase 380V unit offers GMAW, FCAW Gasless, and SMAW as well as a 4 roll drive system and digital displays. This machine can be operated manually or in synergic mode for easy parameter setting. Just select your material and your current and the machine will set the rest! The SYNERGIC300 offers full arc controls including hot-start, arc-force, burnback, pre- and post flow gas as well as a 60% duty cycle @ 280Amps @ 40Deg Celcius and a 3 year parts and labour warranty.

### Features

- MULTI PROCESS CAPABILITY
- 60% DUTY CYCLE @ 280AMPS@40°C FOR SEVERE DUTY APPLICATIONS
- EMBEDDED WELDING DATABASE WHICH PROVIDES INTELLIGENT WELDING PARAMETERS FOR VARIOUS TYPES OF MATERIALS
- ARC CONTROLS INCLUDE HOT-START, ARC-FORCE, BURN BACK, PRE- AND POST-FLOW GAS, HI-SPEED MODE AND INDUCTANCE
- IP23 S ENCLOSURE RATING
- 4 ROLL DIGITAL WIREFEEDER
- OVERHEAT MONITORING OF DC+ TERMINAL TO PROTECT CABLES AND TORCH
- ARC LENGTH COMPENSATION TO ASSIST A WELDER IN PRODUCING CONSISTENT RESULTS
- INTEGRATED TROLLEY DESIGN FOR MANOEUVRABILITY AROUND A WORKSHOP (OPTIONAL)
- THERMAL OVERLOAD PROTECTION

### Applications

- Maintenance and repair
- Fabrication
- Automotive
- Agriculture
- Process equipment
- Sheetmetal fabrication

### Output Range

30 - 300 Amps

### Dimensions L X W X H

610 X 260 X 398mm

### Dry Weight

25.4kg

### Welding Process

DC CC/CV

Input	<b>3</b> PHASE POWER	45 - 65 HZ 380Vac± (285-475V)
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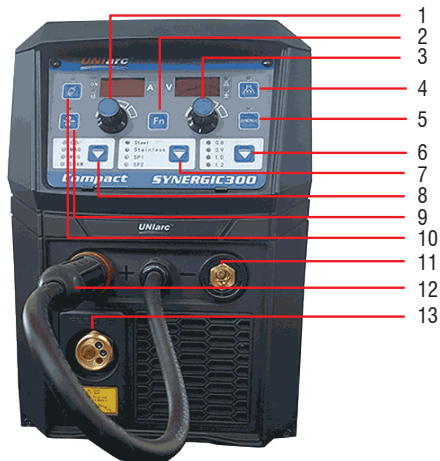
Output	DC CC/CV
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ISO 9001

SYNERGIC300

## Machine Controls



## Description

- |  |                                   |
|--|-----------------------------------|
| 1. Current knob                            | 7. Welding material selector      |
| 2. Function selector                       | 8. Welding process selector       |
| 3. Voltage/synergic offset adjustment knob | 9. Cold wire feed selector        |
| 4. Arc Characteristic Selector             | 10. Gas purge selector            |
| 5. Synergic selector                       | 11. Output terminals              |
| 6. Wire diameter selector                  | 12. Power cable for welding torch |
|  | 13. Euro Gun Connector            |

**UNIarc**<sup>TM</sup>  
**SYNERGIC300**

## WELDING MACHINE SPECIFICATIONS

WELDING MACHINE SPECIFICATIONS	SYNERGIC300
Control Mode	Digital Control
Rated Input Voltage/Phase Number	3 Phase AC380V -15%~ +21%
Input Power Supply Frequency	45~65Hz
Power Factor	0.94
Efficiency	91% (210A/24.5V)
Temporary Load Rate	60%@250A/26.5V 100%@207A/24.5V
Rated Input Capacity	7.8KVA/7.3KW
Output Characteristics	CC SMAW / CV
Rated Output No-Load Voltage	54.2V
Output Current Range	30A~300A

WELDING MACHINE SPECIFICATIONS	SYNERGIC300
Output Voltage Range	12V~30V
Casing Protection Grade	IP23S
Wire Feeding Speed	1.4~28 m/min
Storage Temperature	-40C°~70C°
Insulation Level	H
Operating Temperature	-10C°~40C°Welding Source- the machine can be started up at 39C°)
Weight	25.4 Kg
Wire Coil Diameter	300mm(15kg)
Size L*W*H (mm)	610*260*398

## What's Included



### SYNERGIC300

What's included:

Part no: 00039244

SYNERGIC300 without trolley ready to weld

DESCRIPTION
1 X WELDING MACHINE UNIARC SYNERGIC300 300AMPS 380V
1 X UNIARC PRO-GRIP 360A TORCH PACKAGE X 4M PAR-RTPRO3600-40ER
1 X CONNECTOR DINZE MALE 50-70MM
5m WELDING CABLE 50MM RED
3m GAS HOSE
1 X FLOWMETER CP 351
1 X EARTH CLAMP 400AMP HOLLAND TYPE UNI
1 X WELDING LUG 50 X 12 LUG7012



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