



HUGONG



TYPE
ETIG160III



**Read this manual carefully before
using the product.**

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Storing the user manual

- Keep the user manual in an accessible place, close to the product.
- Ensure that the manual is stored in a dry place.
- Use the manual with care and avoid damage.
- The use of the product by persons who are not familiar with the instructions and procedures in this manual is not permitted.

This user manual is an integral part of the product and must therefore be kept in a safe place. If the product is transferred to another user, the manual must be included.

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1. General

The Hugong ETIG160III is an advanced inverter TIG welding machine suitable for both TIG and MMA welding processes. Thanks to the use of international IGBT technology and precise control circuits, this machine offers reliable performance, stable arc characteristics and a fast dynamic response. The Hugong ETIG160III is ideal for welding pressure vessels, structures, shipbuilding and petrochemical installations, among other things.

2. Safety instructions

Read the entire manual before use and strictly follow the safety instructions.

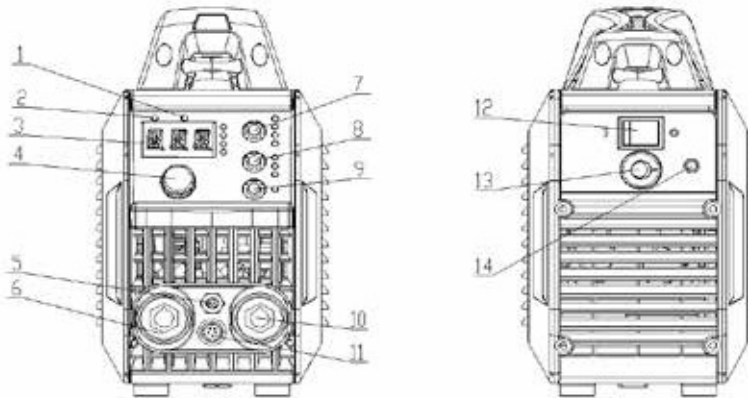
- Keep the working environment free of flammable materials.
- Ensure adequate ventilation during welding.
- Always wear protective clothing, a welding helmet and gloves.
- Do not touch conductors or hot parts with bare hands.
- Do not weld in damp or wet environments.
- Protect others from UV and IR radiation with suitable shielding.
- Only use original and undamaged cables and components.
- Persons with pacemakers should keep their distance due to electromagnetic fields.
- Ensure that the device is correctly earthed.
- Do not use the welder to defrost pipes.
- Handle gas cylinders with care and always secure them properly.

3. Assembly

Place the device in a dry, dust-free and well-ventilated location, away from direct sunlight, rain or aggressive substances.

- Connect the mains cable to a 220–240V power source with an earth connection.
- Mount the pressure regulator on the argon cylinder and connect it to the rear of the machine via the gas pipe.
- Connect the earth clamp to the workpiece via the "-" connection and the electrode holder or TIG torch via the "+" connection.
- Ensure that all connections are secure.

4. Use



1. Overheating indicator
2. Current indicator
3. Digital meter
4. Parameter setting button
5. Gas connection for torch
6. Connection "+"
7. Welding mode selector switch
8. 2/4-stage selector switch
9. Function button
10. Connection for torch control
11. Connection "V"
12. On/off switch
13. Power cable
14. Gas connection

- Switch on the device using the main switch.
- Select the desired welding mode (TIG or MMA).
- Set the current and other parameters using the control knob.
- When TIG welding, use the 2-step or 4-step function for better control of the current build-up and decay.
- Check all connections before and after use and switch off the device when not in use.
- Wear suitable protective gear and shield the welding area from bystanders.

5. Maintenance

- Switch off the power supply before performing any maintenance.
- Regularly check for damaged cables, connectors and parts.
- Remove dust accumulations in and around the device.
- Have the device checked by a qualified technician at least every six months.
- Replace worn or broken parts in good time.

6. Specifications

Model: Hugong ETIG160III

Input voltage: 230V

Frequency: 50/60Hz

Power: 6.6 kVA Input

current: 28.6A Open

terminal voltage: 82V

Working voltage TIG/MMA: 16.4V / 26.4V Welding

current: 10–160A (MMA), 20–160A (TIG)

Gas pre-run time: 0.2s

Gas post-run time:

0.5–15s Duty cycle:

60% Cooling: Air-

cooled Efficiency: ≥

80%

Power factor: 0.85 Insulation class:

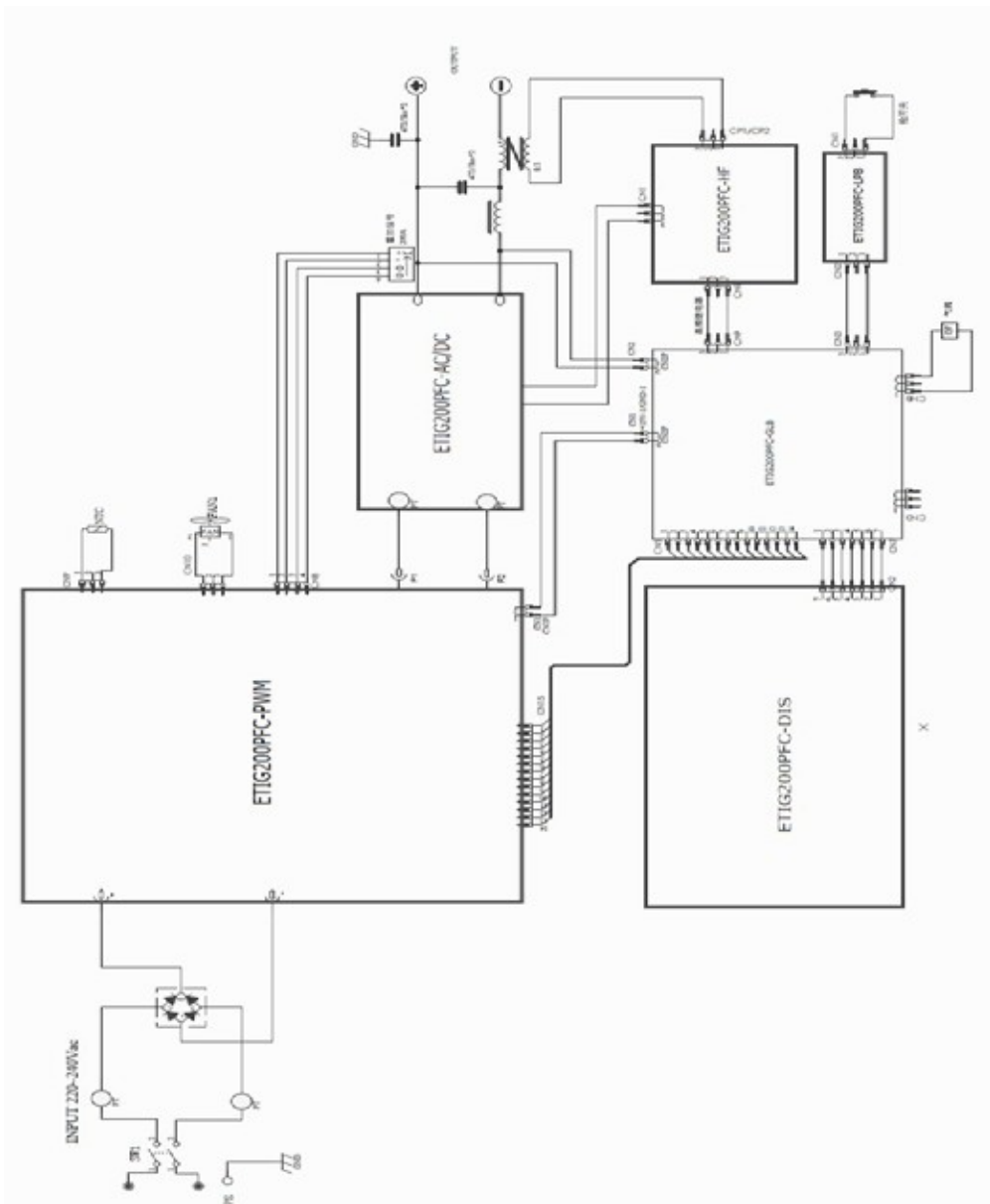
F Protection rating: IP21S Weight:

6.8 kg

Dimensions: 394×154×293 mm

Standards: EN60974-1, IEC60974-10

7. Circuit diagram



8. Warranty conditions HUGONG

1. Warranty

We offer the following on all our products:

- 2-year standard warranty on manufacturing and material defects from the date of purchase
- 5-year extended warranty, provided the product is registered within 30 days of purchase
- The extended warranty is only valid for the original owner and is not transferable. For business applications, different terms may apply unless otherwise agreed in writing.

2. Unique HUGONG- :

5 years with official purchase from an official HUGONGWELDS.EU sales point The 5-year warranty on our HUGONG welding machines is unique in the market and underlines our commitment to quality, durability and service.

This extended warranty applies only if:

- The machine was purchased from an authorised dealer listed on HUGONGWELDS.EU, the central platform for official HUGONG sales outlets and service partners.
- The product has been correctly registered online within 30 days of purchase
- Any repairs or maintenance are carried out exclusively by an authorised HUGONG service partner, as listed on HUGONG-WELDS.EU
- Repairs carried out by unauthorised parties will invalidate the warranty.
- The full list of authorised dealers and service points can be found at:
- www.hugongwelds.eu
- Purchases made through unauthorised sales channels or grey imports are not covered by the warranty conditions.
- Valkenpower B.V. is the official importer of HUGONG welding equipment for Western Europe. The 5-year extended warranty is provided exclusively by Valkenpower in collaboration with HUGONG.

3. Warranty conditions (standard and extended)

To be eligible for warranty (standard or extended), the following conditions must be met:

- The product was purchased from a dealer recognised on HUGONG-WELDS.EU
- The product is used in accordance with the user manual and the prescribed maintenance instructions
- Maintenance and/or repairs will only be carried out by authorised HUGONG service partners
- For extended warranties: the product must be correctly registered within 30 days of purchase
- The original purchase invoice is available and can be presented
- Please note: In the event of incorrect or improper use, the warranty will be void, including the standard warranty.

- If the product is not registered or is registered incorrectly within 30 days, only the standard 2-year warranty applies.

4. What is covered by the warranty?

Within the valid warranty period, HUGONG covers:

- Manufacturing defects
- Material defects
- Functional defects under normal use

will:

- Repair or replace the defective part
- Possibly exchange the entire product
- Or, in consultation, refund the purchase price (in part), minus depreciation
- The choice of solution is at the discretion of Valkenpower B.V. or an authorised service partner.

5. What is not covered by the warranty? The warranty does not apply to:

- Normal wear and tear of parts such as:
- Electrodes, torches, cables, connectors, filters
- Hose couplings, switches, seals
- Water pumps for water coolers – these are considered wear parts
- Incorrect use, overloading or incorrect installation
- Modified or altered products without written permission
- Use of non-approved accessories or parts
- Penetration of dust, moisture or metal particles into the machine – this is not covered by the warranty and is considered user error
- Damage caused by external influences: moisture, dust, overheating, voltage peaks, lightning, fire, corrosion or transport
- Use in rental applications, unless agreed in writing in advance

6. Warranty

procedure In the event of a defect:

Contact our customer service or an authorised HUGONG dealer Provide the following:

- Proof of purchase
- Serial number (legible on the type plate)
- Description of the problem and the circumstances

Shipping:

- The product must be returned safely packaged to the designated service point.
- Transport and shipping costs are at the customer's expense, unless otherwise agreed.
- During repairs, there is no automatic right to a loan or replacement product.

7. Limitation of liability

HUGONG and Valkenpower are not liable for:

- Loss of income, consequential damage or business interruptions
- Costs for disassembly/assembly or adjustments
- Work carried out by third parties without written permission
- Claims exceeding the original purchase price
- Statutory consumer rights remain unaffected.

8. Warranty on parts and repairs

- Repaired or replaced parts retain the remaining warranty period of the original product
- Separately purchased parts have a warranty period of 6 months

9. Applicable law

These warranty conditions are governed by Dutch law. Disputes will preferably be resolved through consultation. If necessary, the matter may be submitted to the competent court in Roermond or to a recognised dispute resolution body.

Questions?

Our customer service team will be happy to help you. Visit:

www.hugongwelds.eu – for dealers, service partners and registration

**EC Declaration of Conformity - Declaration of Conformity –
EG- Konformitätserklärung - Declaration de conformité
- Dichiarazion di conformita- Declaracion de conformidad**

We, We, Wir, Nous, Noi, La empresa,

Valkenpower BV, Industrieweg 4, 6051 AE Maasbracht, Netherlands,

declare under our sole responsibility that the product

We declare under our sole responsibility that the product We

declare under our sole responsibility that the product We

declare under our sole responsibility that the product

declare under our sole responsibility that the product

Type	Description	Brand
Model	Description	Brand
Type	Description	Marke
Type	Description	Marque
Type	Description	Marca
Tipo	TIG welding machine	Marca
ETIG160III	160A	Hugong

To which this declaration relates is in conformity with the following standards:

To which this declaration relates is in conformity with the following document:

Auf welche sich diese Erklärung bezieht, den folgenden Normen entspricht:

Auquel se réfère cette déclaration est conforme à le document suivant:

To which this declaration relates is in conformity with the following document:

To which this declaration relates is in conformity with the following document:

Low Voltage Directive, Niederspannungsrichtlinie, la Directive Basse Tension, la direttiva bassa tensione, la norma Baja tensión:

2014/35/EG

Netherlands, Maasbracht, 05-08-2025

Director Valkenpower

Serial
number:



B.A.H Valkenburg

Valkenpower BV, Industrieweg 4, 6051 AE Maasbracht, Netherlands

