Fronius

Complete
independence
to unleash your
welding potential

Ignis

Battery



Perfect
arc stability without
a power connection

Complete focus on the welding job

Whether you're working on exposed installations and construction sites, in the great outdoors, or in an open field: These and many other situations pose a particular challenge for welding specialists. Responsibility is literally in their hands. What is more, conventional welding solutions quickly reach their limits here. Complex grid leads often have to be laid to the welding point or a heavy and noisy generator used – both very costly and time-consuming measures.

With the Ignis Battery

a power connection is not required. With complete independence from the energy supply, you can rely on a stable and high-performance welding process for both manual arc and TIG welding thanks to innovative battery technology, leaving you to focus fully on the task at hand.

Complete indepen-dence

for manual arc and TIG welding

Conditions during welding often leave much to be desired.
But things become especially difficult when the weld itself is challenging.



Your skill our technology

Compact, robust, reliable



Compact design and robust construction paired with innovative welding and battery technology: These properties come together to make the Ignis Battery a flexible and mobile welding all-rounder. Use it indoors or outdoors, in any weather, with or without a power connection.

The Ignis Battery allows you to unleash your full welding potential, even with challenging welding tasks.

Ignis Battery – the advantages for you



Longer welds with just one battery charge

All electrodes can be welded: Rutile, basic, cellulose. You can weld up to thirty one 2.5 mm or twelve 3.25 mm electrodes on just one battery charge. Alternatively, 30 minutes of continuous TIG welding can be performed (at 100 A) – independent of power and without recharging.



Mobile and robust

Despite the integrated battery, the Ignis Battery weighs just 12 kg (without charger). The robust design of the device and the stainless steel filter also support demanding outdoor use, on rough terrain or in adverse weather conditions.



Stable, powerful battery

Special features: 84 battery cells, 750 Wh, no Memory Effect, low self-discharge, voltage monitoring of all battery cells and protection from overcharging, deep discharge and overheating. A quick charge is possible in just 40 minutes (80% power), full charging takes 60 minutes.



Manual arc and TIG welding in one device

Manual arc and TIG welding are integrated as standard in the Ignis Battery: The best of both worlds in one device!



Usable anywhere – regardless of mains voltage

The Ignis Battery charger is available in country-specific variants. The welding machine can therefore be used in regions with different mains voltages.

For further information, visit:
www.fronius.com/ignisbattery

Equipped for all tasks

Perfect ignition properties

HotStart

To make it easier to ignite the electrode, the current is increased for a fraction of a second during ignition on the welding machine. The HotStart function was specially developed for welding with rutile and cellulose electrodes.

SoftStart

This function ensures a stable arc at the start of welding and has been specially developed for basic electrodes that weld at a low welding current.

Anti-stick

Prevents electrode burn-out: If a short circuit occurs, which is equivalent to the electrode sticking during manual arc welding, the welding machine is switched off immediately.

MMA Pulse

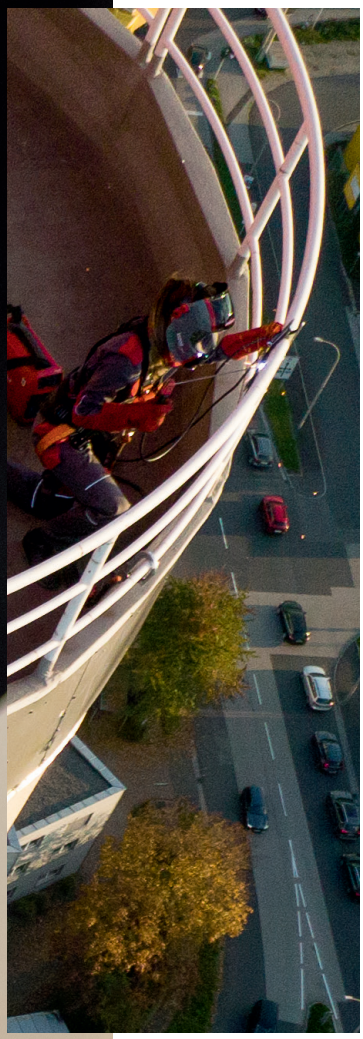
Beautiful welds and even faster welding thanks to the MMA pulse function—especially in restricted positions.



TrackingArc

This function acts like a flashlight: Igniting the arc with only 8 amperes makes it easier to find the exact starting position when re-igniting after the end of welding or an electrode change. In this way, you can prevent welding errors such as insufficiently filled end-craters or notch effects and avoid time-consuming rework. The TrackingArc function is specifically designed for applications that do not use an automatic welding helmet or shield.









Impressive features

Features/properties	Ignis B 150
HotStart	✓
SoftStart	✓
Anti-stick	✓
MMA Pulse	✓
TIG function	✓
TAC tacking function (TIG)	✓
TIG Comfort Stop	✓
TIG Pulse	✓
TIG Multi Connector (TMC)	✓
Remote control operation	✓
Time Shutdown (300 s/900 s/off)	✓
TrackingArc	✓

Welding electronics meets intelligent battery



Low load

Low current consumption, low grid load

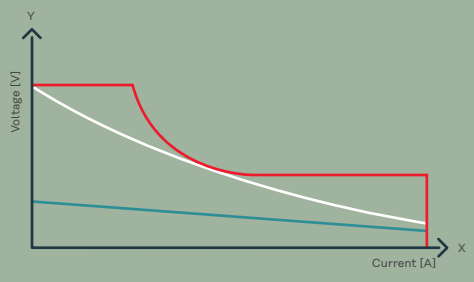
Active Charger battery charger with Quick Charge function (generator-compatible)

Lithium-ion technology

High intrinsic safety, no memory effect, long service life and low self-discharge: Impressive features from the high-performance lithium-ion battery based on iron phosphate (LiFePO4). With 750 Wh and 84 battery cells, its strengths are particularly evident in high-power applications. Compliance with strict safety standards is guaranteed at all times.

AccuBoost technology

Increased arc stability and arc-force dynamic for easy ignition and no arc break. The integrated high-performance battery delivers above-average short-circuit currents for short periods during welding and reliably minimizes sticking of the electrode.



Increased power range with the Ignis Battery compared to conventional inverter technology

- Characteristic curve of AccuBoost Technology
- Characteristic curve of the resonant inverter
- Characteristic curve of a conventional inverter

technology



This perfect combination enables a high welding voltage with constant output and prevents annoying arc breaks.

Ready for use again in no time

Quick battery charging:

40 min – 80% power
60 min – 100% power

Normal charging:

55 min – 80% power
85 min – 100% power

When you're in a hurry: Two electrodes can be welded after only 5 minutes of charging time.

High-performance lithium-ion battery (750 Wh)

Battery mode

Perfect welds in any position
Welding energy is drawn exclusively from the battery. One battery charge is sufficient for around thirty one 2.5 mm or twelve 3.25 mm electrodes. Alternatively, 30 minutes of continuous TIG welding can be performed (at 100 A).

Hybrid mode – charging and welding simultaneously

Generator-powered operation
Facilitates mobile applications and saves investment costs: Due to the low current consumption, a much smaller generator (2 kVA) can be used than with grid-connected devices – without compromising on welding power or arc quality.

Mains operation
Full output power of 150 A including with a 120 V grid: The battery's integrated power reserve guarantees a constant arc even in the event of mains voltage fluctuations and prevents the mains fuse from tripping in case of power surges.



Complete flexi-bility

also for TIG welding



Perfect welds in any position

The Ignis Battery allows you to unleash your full welding potential, because in addition to manual arc welding, mobile TIG welding also becomes a reality.
One battery charge is sufficient for up to 30 minutes of continuous operation (at 100 A). This is usually sufficient for the whole assembly operation.

TIG Multi Connector (TMC)

One solution for everything: This universal connection for system components, such as welding torches with special functions (Up/Down, potentiometers) or remote controls, gives the user cross-product advantages. The TIG Multi Connector is integrated into the Ignis Battery as standard.

Multilock

Simpler, more flexible welding: The Multilock System offers a variety of different and interchangeable torch bodies in various lengths and angles.

TIG Pulse

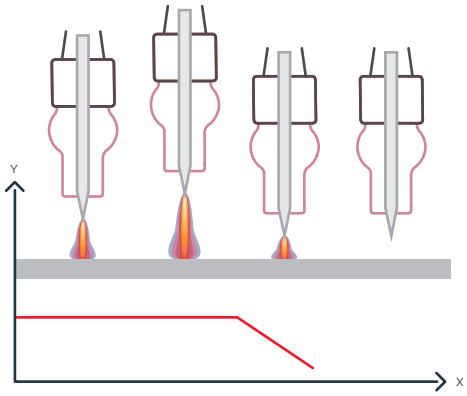
This function (up to 100 Hz) enables precise control over the weld pool and ensures excellent seam jointing. The pulsed arc makes it easier to work with very thin materials, because the temperature is slightly lower in the phases with less current.

TAC tacking function

For tacking, one point is enough: The pulsed arc sets the two weld pools in motion, making them “jump together” in next to no time, forming one single weld pool. The TAC function is also very useful when welding light-gage sheets without filler metal.

TIG Comfort Stop

Prevents annoying arc break at the end of welding: Once the welding process is complete, the welding current switches off automatically after a specific change in the arc length. This ensures improved welding results in the area of the end-crater because the gas shield is also maintained.





Welding made easy





11 **Charging socket**

12 **Shielding gas connection** with integrated gas solenoid valve

13 **Air filter**

Having a handle on everything

The Ignis Battery's new interface is clear and easy to operate – even when wearing gloves. You can navigate through the entire menu with just a few presses or turns and keep the main parameters permanently in view.

1 **Power button**

2 **Carry strap** for easy transport

3 **Rotary pushbutton** easy to operate even with gloves

4 **Settings: arc-force dynamic, welding current,** HotStart/SoftStart, TIG pulsing

5 **Battery status display** always in view

6 **Welding process adjustment knob** MMA (stick, cellulose), TIG

7 **Remote control connection**

8 **Function button** Arc-force dynamic, welding current, HotStart, SoftStart, pulse function

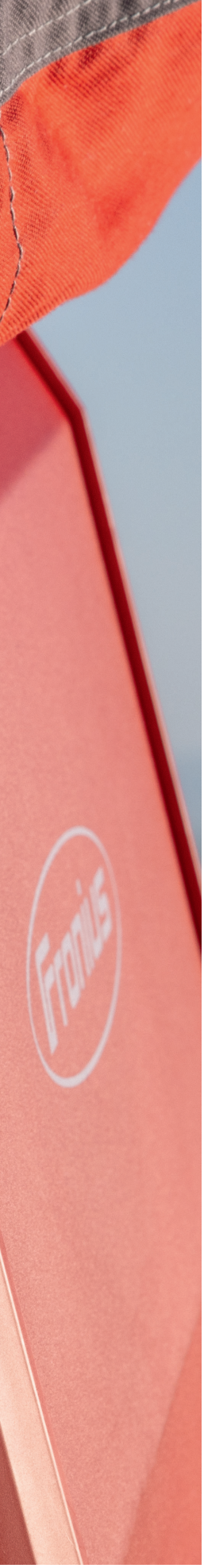
9 **Raised feet** 3.5 cm ground clearance

10 **Sturdy housing** IP23 protection

Ready for use in just a few steps




It's in
your
hands.
STICK
CEL
TIG
SP
Fronius



For today, tomorrow, and beyond



We believe in sustainability

Long service life, reparable, and recyclable: Like all Fronius products, the Ignis Battery is sustainably designed and produced. A high-quality stainless steel filter inside the device, robust housing, and 3.5 cm ground clearance guarantee the welding machine will have a long service life.

Low-noise welding

The Ignis Battery allows you to weld very quietly in battery mode, especially compared with larger generator-powered devices. If a generator is required for longer welding jobs, a compact 2 kVA device is sufficient.

Energy-efficient welding

The energy stays exactly where it is needed: In addition to voltage monitoring, the innovative Battery Management System also watches over the charging process and ensures protection against overcharging and deep discharge. The optionally adjustable automatic time shutdown (300 or 900 s) ensures that valuable energy is not wasted including in standby mode.

For further information, visit:
www.fronius.com/ignisbattery

Technical data

	Ignis B 150
Nominal voltage of rechargeable battery	50.4 V
Charging current during normal charge	10 A
Charging current during quick charge	18 A
Battery capacity	750 Wh
Battery type	Lithium ion
Welding current range Electrode DC TIG DC	 10 – 150 A 3 – 150 A
Welding current in hybrid mode manual arc welding at 40°C (104°F)	12% duty cycle, 150 A 25% duty cycle, 100 A 100% duty cycle, 40 A
Welding current in hybrid mode TIG welding at 40°C (104°F)	25% duty cycle, 150 A 50% duty cycle, 100 A 100% duty cycle, 65 A
Open circuit voltage	91 V
Reduced open circuit voltage	14 V
Protection class	IP 23
Type of cooling	AF
Mark of conformity	CE, S
Dimensions l/w/h	435 x 160 x 310 mm
Weight (without charger)	approx. 12 kg

	Active Charger 1000/230	Active Charger 1000/120
Mains voltage	~ 230 V AC, ±15%	~ 120 V AC, ±15%
Mains frequency	50/60 Hz	
Mains current	max. 9.5 A eff.	max. 15 A eff.
Mains fuse	max. 16 A	max. 20 A
Efficiency	max. 95%	max. 93.5%
Effective power	max. 1100 W	
Power consumption (standby)	max. 2.1 W	max. 1.6 W
Safety class	I (with ground conductor)	
Max. approved grid impedance at the interface (PCC) with the public grid	None	
EMC emission class	A	
Mark of conformity	CE	
Output voltage range	30–58 V DC	
Output current	max. 18 A DC	
Output power	max. 1040 W	max. 1000 W
Cooling	Convection and fan	
Dimensions l/w/h	270 x 168 x 100 mm	
Weight (without cable)	approx. 2 kg	
Protection class	IP43S	
Over-voltage category: Device is only permitted to be operated on grids that are grounded at the neutral point	II	

Extend your warranty

3 Years Full Warranty



Register your welding machine

to extend your warranty.
https://www.fronius.com/pw/product-registration

Further information

about the Ignis Battery can be found here:
https://www.fronius.com/ignisbattery

Unleash your welding potential

To ignite the welding potential of our customers: that is our mission. As the innovation leader for arc welding and global market leader for robot-assisted welding, we create both advanced and profitable welding solutions, which are inspired by our sustainable mindset. We enjoy long-standing relationships with our customers. We understand their challenges and perspectives and maintain a close relationship with them through our regional service teams throughout the world. We listen, understand, and therefore shape the mindset of the welding industry. Our strengths lie in combining our customers' knowledge with our expertise, which allows them to unleash their full welding potential.

Fronius Canada Ltd.
2875 Argentia Road, Units 3, 4, 5 & 6
Mississauga, ON L5N 8G6
Canada
T +1 905 288-21 00
F +1 905 288-21 01
sales.canada@fronius.com
www.fronius.ca

Fronius USA LLC
6797 Fronius Drive
Portage, IN 46368
USA
T +1 877 FRONIUS
sales.usa@fronius.com
www.fronius-usa.com

Fronius UK Limited
Maidstone Road, Kingston
Milton Keynes, MK10 0BD
United Kingdom
T +44 1908 512 300
F +44 1908 512 329
info-uk@fronius.com
www.fronius.co.uk

Fronius International GmbH
Froniusplatz 1
4600 Wels
Austria
T +43 7242 241-0
F +43 7242 241-95 39 40
sales@fronius.com
www.fronius.com

Text and illustrations were accurate at the time of printing. Fronius reserves the right to make changes.
All information published in this document, despite exercising the greatest of care in its preparation, is subject to change. No legal liability is accepted. Copyright © 2023 Fronius™. All rights reserved.

M1,02,0033,EN-US v01 Jul 2024