

ARCPRO-220S: The New Global Benchmark for 220A DC Inverter Welders



Wenzhou, Zhejiang Apr 2, 2026 ([IssueWire.com](https://www.issuewire.com)) - 100% Duty Cycle @ 220A / 40°C | True 6010 Performance | Single-Phase 220V | VRD & Generator-Ready | Worldwide Support

The ARCPRO-220S is not just another inverter welder. It is engineered for one purpose: to deliver relentless, uninterrupted power in the harshest environments — from desert pipelines to high-altitude mines, from humid shipyards to remote infrastructure projects.

With over 700,000 welding units produced annually, KeyGree has the scale and expertise to build a machine that doesn't just compete — it sets a new global benchmark.

Why Welders Worldwide Are Switching to ARCPRO-220S

100% Duty Cycle @ 220A / 40°C – Full output even in extreme heat (tested per IEC 60974-1)

True 6010 Performance – Aggressive arc for root passes, vertical-down, and rusty materials – comparable to leading brands

? **Universal Input** – 220V \pm 15% single-phase – works on standard grid and generator power across the globe

? **Global Certifications** – CE, ISO 9001, BSCI, FCCA – compliant with international safety and quality standards

? **Built for Harsh Environments** – IP23 rated, multiboard 2layer design for thermal stability and durability

Full Feature Set – Engineered for VersatilityDC Inverter Technology

- Energy-efficient, stable arc, lightweight (~15 kg) for easy transport to any job site

Multi-Process Capability

- **MMA (Stick)**– Optimized for 6010/6011/6013/7018 electrodes
- **LIFT TIG**– 10A starting current for precision TIG welding on thin materials

Advanced Protection Systems

- **Undervoltage / Overvoltage / Overcurrent Protection**– Safeguards against unstable grid or generator power
- **Generator Compatible**– Stable arc even on portable generators commonly used in remote areas

Operator-Friendly Controls

- **Arc-Force Adjustable**– Customize digging action for different electrodes
- **Hot Start**– Easy ignition, no sticking
- **Anti-Stick**– Automatically reduces current if electrode sticks
- **VRD ON / OFF**– Voltage Reduction Device for safety (switchable for applications requiring high OCV)

Rugged Construction

- **2-Layer, Multi-Board Design**– Superior thermal management and reliability
- **IP23 Rating**– Dust and water resistant for outdoor use

Remote Ready

- **Wired Remote Control**(included) – Adjust amperage from up to 50m away

Optional LCD Display

- Real-time amp/volt readout, preset memory, and diagnostics

Specifications — Engineered to Outperform

Parameter

ARCPRO-220S

Typical Industry Standard

Process

MMA / Lift TIG

MMA / TIG

6010 Performance

☑ Excellent

☑ Excellent

Input Power

220V ±15%, Single-Phase

230V/400V, 1/3-Phase

Current Range

10–220A

5–300A

Duty Cycle @ 220A / 40°C

100%

~60% (at 40°C)

Duty Cycle @ 220A / 25°C

100%

100%

Open Circuit Voltage

High (6010 arc strike)

High

Arc Force Control

0–10 adjustable

Adjustable

Hot Start

Adjustable

Adjustable

Anti-Stick

?

?

VRD

ON/OFF switchable

ON/OFF switchable (on some models)

Generator Compatibility

? Excellent

? Good

Weight

~15 kg

~18 kg

IP Rating

IP23

IP23

Wired Remote

Included

Optional accessory

Certifications

CE, ISO 9001, BSCI, FCCA

Varies by model

Price Point

\$\$ (Value)

\$\$\$\$ (Premium)

Comparison based on published specifications of leading brands in the 200–250A class.

Proven Performance Across the Globe – Real-World Service Cases Middle East / North Africa – Pipeline Construction in Extreme Heat

Location: Desert pipeline project, 48° C ambient

Challenge: Continuous 6010 root pass welding on 36" pipe; unreliable generator power.

Solution: ARCPRO-220S ran at 210A for 10+ hours without thermal shutdown. Undervoltage protection prevented damage during generator fluctuations.

Outcome: Project completed ahead of schedule; contractor ordered 20 more units.

South America – Mining Equipment Repair at High Altitude

Location: Andes Mountains, Peru – 4,500m elevation

Challenge: Thin air affects engine generators and welder cooling.

Solution: ARCPRO-220S's 2-layer board design and efficient cooling maintained 100% duty cycle. Wired remote allowed operator to adjust amperage while inside equipment.

Outcome: Reduced downtime by 30%; now standard in three mine sites.

Southeast Asia – Shipbuilding & Offshore Fabrication

Location: Shipyard, Vietnam – high humidity, salt spray

Challenge: Corrosion resistance and reliable TIG starting for stainless steel piping.

Solution: IP23 rating protected against splashes; Lift TIG with 10A start enabled precision on thin-wall pipes.

Outcome: Approved by shipyard QA; repeat orders for 50 units.

Europe – Structural Steel Fabrication

Location: Germany – indoor shop with strict safety standards

Challenge: Need VRD for operator safety and CE compliance.

Solution: ARCPRO-220S with switchable VRD met all EU directives. Arc-force adjustment optimized 7018 welds on thick beams.

Outcome: Replaced older machines; feedback praised stability and ease of use.

Sub-Saharan Africa – Rural Infrastructure Projects

Location: Remote village bridge repair, Kenya

Challenge: Only small generator available; need robust machine for field repairs.

Solution: ARCPRO-220S ran smoothly on a 5 kVA generator. Anti-stick feature saved electrodes for inexperienced operators.

Outcome: Local NGO standardized on Keygree for all future projects.

North America – Rental Fleet Expansion

Location: Equipment rental company, Texas

Challenge: Renters demand reliable 6010 performance but often misuse machines.

Solution: ARCPRO-220S's overcurrent protection and anti-stick reduced damage claims. 100% duty cycle means no overheating even during heavy use.

Outcome: Rental utilization increased 25%; company expanding fleet.

Global Service & Support – We're Where You Are

At **WENZHOU KEYGREE ELECTRIC CO., LTD**, we don't just sell machines – we build partnerships worldwide. With an annual production capacity of **700,000 welding units**, we ensure consistent quality, availability, and support.

- **Worldwide Shipping:** Fast delivery from our factories and regional warehouses (Americas, Europe, Asia, Africa).
- **Technical Support:** Multilingual team ready to assist via email, WhatsApp, or video call.
- **Spare Parts Network:** Dedicated distributors stock consumables and spare parts.
- **Training & Documentation:** Comprehensive manuals, welding guides, and video tutorials available in multiple languages.
- **Certification Assistance:** We provide all necessary documentation for CE, ISO, and local approvals.

Why Leading Distributors & End Users Choose KEYGREE

- **70% Year-on-Year Export Growth**– Trusted in over 80 countries
- **In-House R&D**– Continuous innovation in inverter technology
- **Quality Assurance**– ISO 9001 certified manufacturing, BSCI audited, FCCA compliant
- **OEM/ODM Capabilities**– Custom branding, packaging, and features for volume partners
- **Upcoming CNAS Accreditation**– Strengthening our testing capabilities to international standards

Ready to Experience the ARCPRO-220S Difference?

We offer:

- Certified duty cycle curves (IEC 60974-1)
- 6010 weld test videos — root pass, vertical-down, pipe positions
- Global distributor pricing and volume partner terms
- Demo units for qualified partners
- Private label options for volume buyers

Contact us:

Website: www.keygree.com

KEYGREE GROUP CO., LTD.

Manufacturer of High-Quality Welding Equipment Since 2009

Output: 700,000 Units Annually | Certifications: CE, ISO 9001, BSCI, FCCA | CNAS in Progress

Media Contact

Keygree Group Co., Ltd.

*****@keygree.com

<https://www.keygree.com/>

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