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Product Brochure For K84510

AC/DC Welder - ENVY Multi 230

Supplied to School Specifications
NSW DOE Item 41A



Please Call

ORDER CODE:	K84510
NSW DOE Item No.:	41A
QLD DOE Item No.:	~
MODEL:	ENVY MULTI 230
Voltage (V):	240
Welding Current (amp):	73-230 MIG
Recommended Plug Amperage (amp):	15
MIG Duty Cycle @ 40ºc ((% @ amp)):	25% @ 230
TIG Duty Cycle @ 40ºc ((% @ amp)):	25% @ 200
MMA Duty Cycle @ 40ºc ((% @ amp)):	25% @ 200
Mig Wire Size Range (mm):	0.6 - 1.0
Wire Spool Size (kg):	5 & 15
Dimensions (mm):	710 x 280 x 470
Nett Weight (kg):	20.6

UNIMIG

5 YEAR WARRANTY

15A PLUG 240V

Description

Filled with the latest revolutionary technologies, this professional-grade multi-process welder is capable of every kind of welding you need.

- Single and double pulse MIG programs
- High-frequency AC & DC TIG
- MIG & TIG Smart-Set weld modes for complete synergic setups

MIG Smart-Set
Ready to weld with the press of a few buttons. Simply select your joint type, filler wire, gas mixture, wire diameter, and material thickness, and the machine will choose the ideal settings. If it's a little off, you can make manual adjustments to finetune every weld.

Ultimate TIG Welding
Weld every kind of metal. With the ability to run on an Alternating Current (AC) you're able to weld aluminium as effortlessly as mild and stainless steels on a Direct Current (DC).

TIG Smart-Set
Starting a weld has never been faster with the all-new synergic TIG. Choose your material, joint type, tungsten diameter, plate thickness, and gas mixture, and you're off and running. If it's not quite right, you can tweak the parameters to perfection.

Independent AC Amplitude Control
Adjust the amperage separately in the EP and EN parts of the AC cycle. This gives you precise control over how much heat goes into the workpiece versus the tungsten, allowing cleaner aluminium welds, better penetration control and reduced tungsten wear.

Mixed AC/DC
Combine the cleaning action of AC with the penetration and arc force of DC in a single weld. Mixed AC and DC delivers faster travel speeds, stronger fusion on thicker sections and a more responsive puddle, especially on cold workpieces.

Advanced Pulse Frequency Control
With pulse frequency capability up to 999 pulses per second in AC and DC, you can tighten the arc, reduce heat input and gain greater stability on thin materials. High speed pulsing sharpens puddle control, improves arc focus and gives cleaner, more consistent bead appearance on both aluminium and steels.

Automatic Cap Shaping
The machine shapes the tungsten to the correct profile for aluminium welding when you press the trigger. This ensures predictable arc starts and cleaner puddle control.

Digital 4 Geared Wire Feed System

The digital controlled four geared drive delivers strong, even pressure to the wire for smooth and reliable feeding. It handles soft wires like aluminium with ease, reducing birdnesting and removing the need for a spool gun. This gives you cleaner feeding and a steadier arc across all torch lengths.

Superior Arc Starts & Finishes
Hot Start - Get the smoothest arc starts possible. The Arc Start function gives you the option of either a boost of current or a reduction in current at the beginning of your weld. The arc start eliminates any issues with starting on cold metal, lets you weld on thicker materials, stops burn through on thinner materials, and makes welding aluminium even easier.
Crater Fill - End your welds as strong as they started. The Arc End feature ramps your welding current and voltage down at the end of a weld, filling it in at a lower amperage, eliminating craters and pinholes.

Power Factor Correction (PFC)
Get the most out of your machine. The PFC maximises the electrical efficiency of the machine and automatically compensates for any voltage fluctuations, so you get more output power and the internal components last longer.

PLUS Programs
Achieve professional results on every weld with the advanced PLUS programs.
SpotPlus - Speeds up the formation of the weld puddle by applying an adjustable synergic pulse to the beginning of the weld.
ArcPlus - Keeps the weld current constant by adjusting the voltage or amperage as needed when the arc length changes for a consistent weld puddle, sharper arc and steady heat input.
TackPlus - Create evenly spaced and sized fusion tack welds with a preset weld time and adjustable frequency.
FusionPlus - Gives a more penetrative weld while in AC by shifting the waveform further into the negative side for greater penetration, a narrower arc and less cleaning around the weld.

Advanced IGBT Inverter Technology
Our IGBT inverter platform delivers higher efficiency, stronger arc stability and more consistent power delivery. It runs cooler, responds faster to changes in arc demand and provides the reliability needed for modern welding applications.

Smart Fan Technology
The fan runs only when needed, reducing noise, cutting power use and limiting the dust drawn into the machine. This keeps internal components cleaner and helps extend the overall life of the unit.

Advanced MMA Features
Advanced MMA features are designed for improving weld quality and ease of use.
Pulse MMA - Revolutionary pulse stick reduces spatter, improves heat control and makes for easier slag removal, as well as improves the speed and efficiency of vertical up welds without sacrificing any root fusion.
Arc Force - The adjustable arc force adjusts the current (and, therefore, the heat) based on the length of the arc. When the arc becomes shorter, the current increases to keep it stable and stop the electrode from sticking. When the arc becomes longer, the current will decrease.
Hot Start - The adjustable hot start is designed to help with striking an arc. The hot start temporarily boosts the output current at the start, making striking an arc, even with difficult electrodes, much easier. You get smoother arc starts, improving the quality of your weld.
Anti-Stick - The Anti Stick feature, which is always on, prevents your electrode from sticking to your workpiece. When the machine detects sticking, the current will drop significantly, so the electrode can be removed.

Job Memory
The job memory function allows you to enter and store weld parameter settings. Weld parameters can be further adjusted and stored as required. A total of 100 jobs can be memorised and stored for recall.

Inductance Control
Take complete control of your arc with the inductance settings. By changing the frequency of your short circuit MIG welds with the Inductance controls, you can choose your preferred arc characteristics on every weld.

Dual Gas Inputs
Set up for MIG and TIG at the same time. With dual gas inputs for both weld types, you won’t need to swap your gas when you swap torches. The quick connect inputs also make replacing your gas bottle as simple as unplugging and plugging in.

AC Waveforms
Customise your AC waveforms. Choose from your preferred welding waveform or use a combination of two to adjust the arc characteristics to suit your welding needs.

Burnback Adjustment
Stop your wire from ever fusing with your weld or your contact tips again. Tune your burnback control to suit how much wire you want to remain sticking out from your torch when you finish a weld.

Generator Compatible
Take it anywhere. Connect the machine to a generator and use it wherever, whenever you need it. We recommend 10kVA for this machine.

Features

- True 4 in 1 Multi Process - MIG, AC/DC TIG, MMA
- Accepts 5kg & 15kg Mig Wire Spool Sizes
- Thermal overload protection
- Complies to AS/NZS 60974.1 standards
- UNIMIG is pleased to offer a 5-year warranty on the ENVY MULTI 230 AC/DC

Includes

- ENVY MULTI 230 AC/DC Welder
- 3m M26 Digital MIG Torch
- 4m T2 TIG Torch
- 3m Twist Lock Electrode Holder
- 3m 300A Earth Clamp & Lead

- Argon Regulator
- 1.8m Quick-Connect Gas Hose
- Operating Manual
- 0.8-0.9mm V Groove Roller
- 0.8-0.9mm F Groove Roller
- 1.0-1.2mm U Groove Roller
- Earth Lug (For Earth Continuity)
- M26 Style MIG Torch Consumable Starter Kit
- T2 TIG Torch Consumable Starter Kit
- Mig Pliers / Wire Cutters
- Professional Leather welding Gloves
- 0.9mm ER70S-6 Mild Steel MIG Wire 5Kgs

Optional Accessories

- Spool Gun - Make welding aluminium even easier. No need to change your existing setup. The spool gun lets you quickly switch over and get any job done with no downtime.
- Foot Pedal - Enjoy greater control and precision with our optional foot control accessory. This handy feature allows you to easily adjust your TIG amperage on the fly, without interrupting your torch movement. Wireless and wired options available.

Specific Features



Right View



Left View



Mig Torch Starter Kit



TIG Starter Kit



Mild Steel 5kg



Professional Leather Welding Gloves

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Recommended Accessories

K84520
Trade Series Welding Helmet - 4 Arc Sensors



K84521
Professional Series Welding Helmet - 5 Arc Sensors



K84525
Auto Darken Welding Helmet - 4 Arc Sensors



K84526
Auto Darkening Welding Helmet - 4 Arc Sensors



K84527
Welding Helmet with PAPR Respirator



K84528
Welding Helmet with PAPR Respirator - Flip-up Lens



W119
Anti-Spatter Spray



W10362
Magnetic MIG Torch Rest



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W10361

Magnetic TIG Torch Rest

