

ENVY OMNI220 AC/DC



SKU: U11596

A true all-in-one machine delivering MIG, AC/DC TIG, MMA and plasma cutting from a single platform.

- Single and double pulse MIG programs
- High-frequency AC & DC TIG
- MIG & TIG Smart-Set weld modes for complete synergic setups
- Fast, clean cutting with pilot arc start & a 25mm cutting capacity
- Holds up to 15kg (D300) MIG wire spools

Package Contents:

- ENVY OMNI 220 AC/DC Welder
- 3m M26 Digital MIG Torch
- 4m T2 TIG Torch
- 6m SC80 Plasma Torch
- 4m Twist Lock Electrode Holder
- 4m 300 Amp Earth Clamp & Lead
- 2 x Dual Stage Argon Flowmeters
- 2 x 1.8m Quick-Connect Gas Hoses
- Operating Manual
- 4 x 0.8-0.9mm V Groove Roller
- 4 x 0.8-0.9mm F Groove Roller
- 4 x 1.0-1.2mm U Groove Roller

Technical Data

Parameter	Values
SKU	U11596
Primary Input Voltage	240V Single-Phase 50/60Hz
Supply Plug	15A
I _{eff} (A)	15 (15A) / 20.2 (32A)
I _{max} (A)	32
Rated Output	5-220A
Open Circuit Voltage (OCV)	80V
OCV With VRD Active	13.4V
Voltage Reduction Device (VRD)	Yes
Protection Class	IP21S
Insulation Class	H
Minimum Generator (kVA)	10
Air Supply	Clean, dry, oil-free compressed air
Air Flow Draw (L/min)	170-190
Air Flow Pressure	73-87 psi, 5-6 bar, 0.5-0.6 MPa
Recommended Compressor Output	220-250L/min FAD or higher
Standard	AS 60974.1
Welds	MIG: Mild Steel, Stainless Steel, Aluminium, Silicon Bronze MMA: Mild Steel, Stainless Steel, Cast Iron TIG: Mild Steel, Stainless Steel, Aluminium, Copper, Silicon Bronze, Titanium, Magnesium, Zinc Alloys
Warranty (Years)	5

MIG Specifications

Parameter	Values
MIG Welding Current Range	25-220A
MIG Duty Cycle @ 40°C	20% @ 220A, 60% @ 127A, 100% @ 98A (15A) 40% @ 220A, 60% @ 180A, 100% @ 139A (32A)
MIG Wire Size Range	0.6-1.2mm
MIG Wire Spool Size	5kg (200mm) / 15kg (300mm)
MIG Welding Thickness Range	1-10mm
Drive Roller Size	37/24

TIG Specifications

Parameter	Values
TIG Function Type	AC/DC HF TIG & AC/DC Pulse
TIG Welding Current Range	5-220A
TIG Duty Cycle @ 40°C	35% @ 220A, 60% @ 168A, 100% @ 130A (15A) 40% @ 220A, 60% @ 180A, 100% @ 139A (32A)
TIG Welding Thickness Range	1-10mm

Size & Weight

Parameter	Values
Dimensions (mm)	820x275x520
Weight (kg)	33.5

MMA Specifications

Parameter	Values
STICK Welding Current Range	10-200A
STICK Duty Cycle @ 40°C	25% @ 200A, 60% @ 129A, 100% @ 100A (15A) 40% @ 200A, 60% @ 163A, 100% @ 126A (32A)
STICK Electrode Range	2.5-4.0mm
STICK Welding Thickness Range	2-12mm

Plasma Specifications

Parameter	Values
Plasma Cut Current Range	20-40A
Plasma Cut Duty Cycle @ 40°C	40% @ 40A, 60% @ 33A, 100% @ 25A
Mild Steel Cut Thickness	20mm
Mild Steel Severance Thickness	25mm
Stainless Cut Thickness	18mm
Aluminium Cut Thickness	14mm
Copper Cut Thickness	8mm