



PRO-TEC® 100 S

Portable DC Stick/TIG Welding System

A complete, simple and easy, portable welding system with up to 100 amps of welding power. Providing excellent performance on a wide variety of materials from chrome-moly and steel tubing to general mild and stainless steels. Delivering a superior smooth and stable arc characteristic down to 10 amps for the thinnest of materials. Extremely lightweight and portable yet designed to handle the toughest jobs.

- **Simple, Complete, Optimized Stick or Stick/TIG System** supplied in a protective case with all accessories ready to start welding
- **Versatile**, with dual process Stick/TIG capability and 120V, 15 or 20 Amp mains or generator input, this system is usable virtually anywhere
- **High Output** with 100 amps maximum
- **Highly Portable**, one of the smallest and lightest machines available at under 10 pounds. The shoulder/hand carrying strap also allows the user easy carrying between locations
- **Flexible**, with IP23S this system is suitable for both indoor and outdoor use for welding a wide range of metals in many different applications
- **High Efficiency** inverter design and built to last
- **Optimized Arc** that delivers a smooth stable welding characteristic with a wide range of electrodes
- **Thermal Overload Protection** that will protect the internal electrical components from overheating if the duty cycle is exceeded



QUICK SPECS	
PROCESSES	AMPERAGE RANGE
Stick (SMAW)	10 – 100 Amp
Lift TIG (GTAW)	WEIGHT
RATED OUTPUT	9.7 lb (4.4 kg)
120V: 90A / 23.6V @ 20% Duty Cycle (Stick)	ORDER INFORMATION
120V: 100A / 14V @ 20% Duty Cycle (TIG)	Part No: G1110000 PRO-TEC 100 S Stick Welding Package
MAX. OPEN CIRCUIT VOLTAGE	Part No: G1110005 PRO-TEC 100 S Stick/TIG Welding Package
60 VDC	

THE PERFECT WELDING SYSTEM FOR:	
Farms & Ranches	Sheet Metal & Light Fabrication
Maintenance & Repair	On-Site & Portable Welding Applications
Training Institutions	Hobbyists (DIY)

STICK SYSTEM (G1110000) INCLUDES
PRO-TEC® 100 S Portable DC Power Supply
Electrode Holder with 10 ft (3 m) Lead
Ground Clamp with 10 ft (3 m) Lead
Adapter Plug & Cable – 120V, 20 to 15 Amp
4 General Purpose Electrodes (E6013)
Operator Manual
Shoulder Strap
Carry Case

STICK/TIG SYSTEM (G1110005) INCLUDES ALL OF THE ABOVE PLUS
TIG Torch & Accessories, 9V Style, 25 mm Dinse with 10 ft (3 m) Lead
Argon Flow-gauge Regulator

CONTROL PANEL

Overheat / Fault Indicator Light

Power Indicator Light

Weld Amperage Control Knob

Stick/Lift TIG Process Switch



SYSTEM FEATURES

Dinse Style 25 Positive
Welding Output Terminal

Dinse Style 25 Negative
Welding Output Terminal

WELDING DC	
Type: Constant Current	DC, Stick / Lift TIG
Maximum Output	100 Amp
STICK (SMAW) Welding Output @104°F (40°C)	
15A/120 VAC Power Outlet	62A / 22.5V @ 45% Duty Cycle
20A/120 VAC Power Outlet	90A / 23.6V @ 20% Duty Cycle
TIG (GTAW) Welding Output @104°F (40°C)	
15A/120 VAC Power Outlet	85A / 13.4V @ 25% Duty Cycle
20A/120 VAC Power Outlet	100A / 14V @ 20% Duty Cycle
Current Range	Stick 10 – 90A / TIG 10 – 100A
Nominal OCV Volt	60 VDC
Warranty Period	1 Year*
Approvals	CAN / CSA – E60974-1:12, ANSI / IEC 60974 – 1:2008
Protection	Class IP23S
Power Source Dimensions (H x W x D)	9.0" x 5.1" x 13.0" (230 mm x 130 mm x 330 mm)
Power Source Weight	9.7 lb (4.4 kg)

PRIMARY POWER	
Primary Voltage	120 VAC
Supply Voltage Range	104 – 127 VAC
Number of Phases	Single Phase
Supply Frequency	50 / 60Hz
Supply Plug	NEMA 5-20P
Rated kVA @ Max output	4 kVA
Lead Cord Length	6.5 ft (2 m)

* Limited Warranty, refer to warranty schedule.

PRO-TEC® 100 S

System accessories included.



PART NO. G1110005 – ALL OF THE ABOVE PLUS



System shown PRO-TEC 100 S Stick/TIG Welding System (G1110005).

1. PRO-TEC 100S Portable DC Power Supply
2. Electrode Holder with 10 ft (3 m) Lead
3. Ground Clamp with 10 ft (3 m) Lead
4. Adapter Plug & Cable – 120V, 20 Amp to 15 Amp
5. 4 General Purpose Electrodes (E6013)
6. Operating Manual
7. Shoulder Strap
8. Carry Case
9. 9V Style TIG Torch & Accessories with 10 ft (3 m) Lead
10. Argon Flow-gauge Regulator

ORDERING FORM

Equipment	Part No.	Description	Quantity	Price
PRO-TEC® 100 S Stick Welding System 	G1110000	PRO-TEC 100 S Power Supply, Electrode Holder with 10 ft (3 m) Lead, Ground Clamp with 10 ft (3 m) lead, 20 Amp to 15 Amp Power Adapter Plug & Cable, Operator Manual, 4 General Purpose Electrodes (E6013), Shoulder Strap and Carry Case <i>(Accessories also shown below)</i>		
PRO-TEC 100 S Stick/TIG Welding System 	G1110005	Includes contents of G1110000 plus 9V Style TIG Torch & Accessories with 10 ft (3 m) Lead and Argon Flow-gauge Regulator		
Replacement Accessories				
TIG Torch & Accessories <i>(required for TIG welding)</i> 	G5209100	9V Style TIG Torch with 10' 5/8" – 18UNF Hose connection, Gas valve, 25 mm Dinse connection and Accessory kit with 0.040", 1/16", 2% Ceriated (EWCe-2) Tungsten; 0.040", 1/16" Collets; 0.040", 1/16" Collet bodies; No. 4, 5, 6 Alumina nozzles; short back cap and medium back cap.		
Ground Clamp 	G5310000	Ground Clamp & Lead Assembly, 10 ft (3 m), Dinse Style		
Electrode Holder 	G5310010	Electrode Holder & Lead Assembly, 10 ft (3 m), Dinse Style		
Argon Flow-gauge Regulator 	G4300000	Argon Flow-gauge Regulator		
Power Adapter 	G4112000	Power Adapter – 120V, 20 Amp to 15 Amp		
Toolbox Case 	G4500000	Toolbox Case for 100S		

CAUTION: For your safety, read operating instructions thoroughly and carefully before operating this equipment.