



THERMAL ARC
Professional

ENGINE DRIVEN

EXPLORER™ TA-8/300-KAT



PROCESS	MIG	FLUX CORED	STICK	LIFT TIG	CAC
Part Number	Rated Output @ Duty Cycle		Output Range	Dimensions (H x W x D)	Net Weight
11-1010	210 A / 29 V @ 100% 300 A / 32 V @ 60%		30 - 300 Amps	33.5" x 21" x 52.5" 850 x 530 x 1330 (mm)	665 lbs. (302 kg)

The Explorer™ TA-8/300-KAT is a multiple process machine with capability of high quality welding. Its heavy-duty design, built to fit on a truck or trailer, provides performance on STICK / Lift Start TIG / MIG and Carbon Arc Gouging at 100% Duty Cycle @ 210 Amps weld output.

The unique Power-Plus® patented alternator delivers a smooth weld output. Its brushless design increases efficiency – reducing maintenance and extending the life of the machine. Separate windings are used for welding and auxiliary power, offering the highest quality auxiliary power. A rugged 19 HP, 3-cylinder, diesel, water-cooled Kubota engine, powers the generator.

Standard features include HF protection, warning systems, muffler and rain cap, low oil/pressure shutdown, and its idle automatically adjusts for amperage draw and efficient fuel consumption.

The Explorer™ is designed to deliver the best available welds/auxiliary power for contractors, owner-operators and welding professionals.

Machine Specifications

Engine	Kubota D722-E
Type	3-Cylinder, Water-Cooled, Diesel
Auxiliary Power	230 VAC, 60 Hz, 1 Phase, 8.5 kVA 115 VAC, 60 Hz, 1 Phase, 4.25 kVA
HP & Welding Speed	19 HP @ 3,600 RPM
Idle Speed	2,600 RPM
Fuel Tank	10 gal. / 38 L
Oil Capacity	3 qt. / 3.1 L
Fuel Consumption @ Rate Load	1.1 gal/hr. / 4.2 L/hr.
Battery	12 Volt
Maximum OCV	70 V
Lifting Eye	2" / 50mm Diameter Hook

... ON THE MOVE

Features

- 115 / 230 VAC
- Design allows for easy maintenance with a single-sided service center of the engine driven welder
- Multi-processes including MIG, STICK, Lift TIG, Carbon Arc Gouging
- Infinite control of voltage/current
- Rugged heavy-duty full canopy design
- Outstanding low end performance for E6010 electrode operation
- Low oil/pressure shutdown
- 115 VAC / 20 Amp circuit breaker
- GFCI 115 VAC duplex receptacles
- Low-level fuel shutdown circuit stops engine before fuel tank is empty
- Warning systems
- Hour meter monitors time engine is in use
- Diesel engine is fuel injected for easy starts and low fuel consumption
- Easy to read fuel gauge

Compatibility

The Explorer™ can be accessorized with the following Thermal Arc wire feeders:
 Porta-Feed® 17A,
 Hefty® II CC/CV,
 Hefty® II Stainless,
 or Heavy Duty CC/CV.



Control Panel

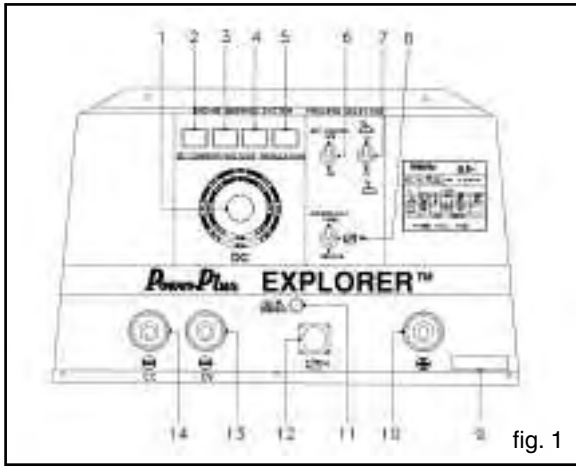


fig. 1

Front Panel (fig. 1)

1. Amperage / Voltage Control
2. Battery Charge Lamp
3. Oil Pressure Lamp
4. Water Temperature Lamp
5. Fuel Reserve Lamp
6. Arc Control Switch
7. Process Selector Switch (CC/CV)
8. Remote Control AMPERAGE/VOLTAGE Switch
9. Serial Number
10. Welding Receptacle Electrode (Positive CC/CV)
11. 115V 3A Circuit Breaker
12. 14 PIN Receptacle
13. Welding Receptacle Work (Negative CV)
14. Welding Receptacle Work (Negative CC)

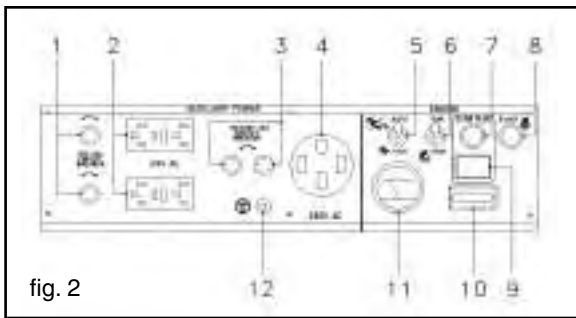
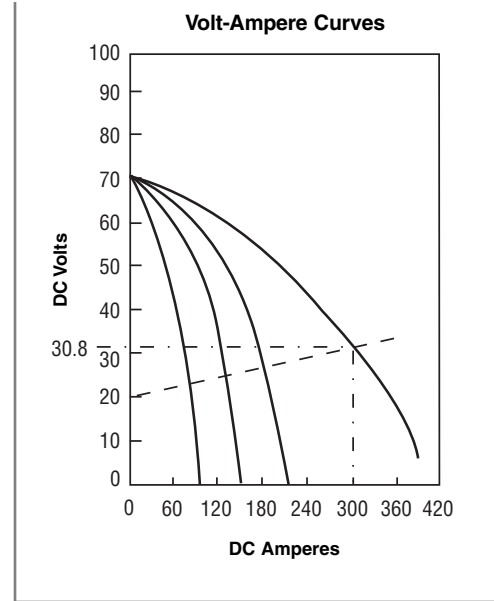


fig. 2

Front Panel (fig. 2)

1. 115V 20A Circuit Breaker
2. GFCI 115V Duplex Receptacles
3. 230/115V 40A Circuit Breakers
4. 230/115V Single Phase Receptacle
5. Engine Auto/High Switch
6. Engine RUN/STOP Switch
7. Glow Plug Push Button
8. START Button
9. Glow Lamp
10. Hour Meter
11. Fuel Gauge
12. Earth Connection

Performance Data



Ordering Information

Part No.

Part No.

Power-Plus® Series Explorer™ TA-8/300-KAT
115 / 230 VAC, 1 Phase Auxiliary Power

11-1010

ACCESSORIES

TIG KIT

ARCAIR® TIG torch w/ valve, accessory kit, 10 ft. gas hose VICTOR® regulator, 12 ft. work cable w/ ground clamp and attached dinse connectors

10-4080

STICK KIT (Dinse Kit, part #205785-001 also required)

Two 30 ft. #2 cable w/electrode holder, ground clamp and lugs (200-250 amps)

410877-001

Two 30 ft. 1/0 cable w/electrode holder, ground clamp and lugs (300 amps)

410877-002

Two 50 ft. #2 cable w/electrode holder, ground clamp and lugs (200-250 amps)

410877-004

Two 50 ft. 1/0 cable w/electrode holder, ground clamp and lugs (300 amps)

410877-005

DINSE KIT

50mm - two males

205785-001

TORCH SWITCH

25ft. (7.6m) 14 pin (male) - torch mounted - on/off switch

10-2001

25ft. (7.6m) 14 pin (male) - 5/8" - 7/8" (16mm - 22mm)

torch mounted - on/off w/current control

10-2002

ACCESSORIES (cont.)

TORCH SWITCH (cont.)

25ft. (7.6m) 14 pin (male) - 7/8" - 1-1/8" (22mm - 29mm)

torch mounted - on/off w/current control

10-2003

25ft. (7.6m) 14 pin (male) - 1-1/8" - 1-3/8" (29mm - 35mm)

torch mounted - on/off w/current control

10-2004

HAND PENDANT

25ft. (7.6m) 14 pin (male) to 14 pin (female)

10-2005

FOOT CONTROL

25ft. (7.6m) 14 pin (male) to 14 pin (female)

10-2007

15ft. (4.6m) 14 pin (male) to 14 pin (female)

10-2008

EXTENSION CABLE

25ft. (7.6m) 14 pin (male) to 14 pin (female)

10-2032

50ft. (15.2m) 14 pin (male) to 14 pin (female)

10-2033

75ft. (22.8m) 14 pin (male) to 14 pin (female)

10-2034

100ft. (30.4m) 14 pin (male) to 14 pin (female)

10-2035

RUNNING GEAR

11-3648

HIGHWAY READY TRAILERS

800036

PARALLELING KIT

11-2021

DINSE CONNECTOR

50mm - male for additional torches and leads

10-2020

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www.thermaldarc.com



A Global Cutting & Welding Market Leader™

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