

# ET 220i AC/DC

## HF TIG Inverter Power Supply



ET 220i AC/DC Part No: W1009300

The ET 220i AC/DC is a high output, full digital control, AC/DC, Stick/Liftarc TIG/HF TIG, inverter power supply with expanded input voltage capabilities for maximum flexibility.

This unit is specially designed for precision TIG and Stick welding of all weldable materials. Superior, true square wave output combined with advanced balance and cleaning features to deliver unbeatable welding performance with extended tungsten life on aluminum and magnesium alloys without the need for continuous high frequency.

- **Standard features include:** high frequency start, Liftarc TIG start, automatic downslope, pulse, repeat (latch) function, memory function and automatic gas management
- Embedded microprocessor with digital controls
- HF TIG and Liftarc TIG start with rapid pulse output
- Tiptronic memory functions
- Robust aluminum metal case

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### Industry

- Ship/Barge Building
- Automotive
- Industrial and General Fabrication
- Pipe Construction
- Repair and Maintenance



ET 220i AC/DC HF TIG inverter power source control panel

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Specifications	
Power source weight without power cable, lb. (kg)	29.5 (13.4)
Power source dimensions, L x W x H, in. (mm)	18 x 7.25 x 13 (483 x 185 x 326)
Standards	CSA E60974-1, ANSI/IEC 60974-1
Number of phases	1/3
Supply voltage, VAC – 1/3 ph	208-230/460 +/-15%
Supply frequency, Hz	50/60
Welding current range (Stick), A – 1 ph	10 – 150
Welding current range (Stick), A – 3 ph	10 – 170
Welding current range (TIG), A – 1 ph	5 – 200
Welding current range (TIG), A – 3 ph	5 – 220
Effective input current (I <sub>1eff</sub> ), A (V) – 1 ph	37.3 (208) 33.7 (230)
Effective input current (I <sub>1eff</sub> ), A (V) – 3 ph	16.8 (208) 15.2 (230) 8.2 (460)
Maximum input current (I <sub>1max</sub> ), A (V) – 1 ph	37.3 (208) 33.7 (230) 18.1 (460)
Maximum input current (I <sub>1max</sub> ), A (V) – 3 ph	24.5 (208) 22.1 (230) 11.9 (460)
Generator requirement, kW (kVA @ PF)	13 (16 @ 0.8)
Stick (SMAW), A @ V (phase)	150 @ 40% 26 (1) 170 @ 40% 26.8 (3)
Welding output 40°C (104°F), 10 min. A @ V (phase)	140 @ 60% 25.6 (1/3)
TIG (GTAW), A @ V (phase)	200 @ 45% 18.8 (1) 220 @ 40% 18.8 (3)
Welding output 40°C (104°F), 10 min. A @ V (phase)	180 @ 60% 17.2 (1) 160 @ 100% 16.4 (3)
Open circuit voltage, (VRD active), V	<113
Enclosure class	IP23S

Ordering Information	
Description	Part Number
ET 220i AC/DC power source	W1009300
ET 220i AC/DC HF TIG <i>Includes: inverter power source, 200A air cooled TIG torch with accy's., work and electrode lead, gas hose and flowmeter/regulator, operator's manual and set-up DVD, primary cable and Dinse plugs.</i>	W1009301
ET 220i AC/DC HF TIG <i>Includes: inverter power source, 200A air cooled TIG torch with accy's., work and electrode lead, gas hose and flowmeter/regulator, industrial trolley, operator's manual and set-up DVD, primary cable and Dinse plugs.</i>	W1009302

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Options & Accessories	
Description	Part Number
TIG Torch, 26 w/8 pin hand remotes, 12.5 ft. (3.8 m), 2 in. (50 mm) & accessory kit	W4013600
Tweco 200A electrode holder & lead assy. 13 ft. (4 m) length, 2 in. (50 mm) Dinse	91101177
Tweco 200A ground clamp & lead assy. 10 ft. (3 m) length, 2 in. (50 mm) Dinse	92551140
Victor ESS3-RG-580 EDGE Argon flowgauge regulator	0781-5120
Gas hose, 12.5 ft. (3.8 m) length, male 5/8 in. -18unf gas fittings	W4013900
Foot control contactor on/off & current control w/8-pin male plug and 15 ft. (4.6 m) cable	600285
Foot control contactor on/off & current control w/8-pin male plug and 25 ft. (7.6 m) cable	10-4016
HP-100 hand held remote control pendant	10-4014
Torch mounted contactor on/off w/8-pin male plug and 15 ft. (4.6 m) cable	10-4006
Torch mounted contactor on/off w/8-pin male plug and 25 ft. (7.6 m) cable	10-4007
Torch mounted contactor on/off & current control w/8-pin male plug & 15 ft. (4.6 m) cable, fits CK9 style handle	10-4008
Torch mounted contactor on/off & current control w/8-pin male plug & 15 ft. (4.6 m) cable, fits CK17 style handle	10-4009
Torch mounted contactor on/off & current control w/8-pin male plug & 15 ft. (4.6 m) cable, fits CK26 style handle	10-4010
Torch mounted contactor on/off & current control w/8-pin male plug & 25 ft. (7.6 m) cable, fits CK9 style handle	10-4011
Torch mounted contactor on/off & current control w/8-pin male plug & 25 ft. (7.6 m) cable, fits CK17 style handle	10-4012
Torch mounted contactor on/off & current control w/8-pin male plug & 25 ft. (7.6 m) cable, fits CK26 style handle	10-4013
Torch mounted contactor on/off & current control w/8-pin plug & 15 ft. (4.6 m) cable	600296
Torch mounted contactor on/off & current control w/8-pin plug & 25 ft. (7.6 m) cable	600297
Industrial trolley (running gear/cylinder rack)	W4010003



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COMPANY WITH  
MANAGEMENT SYSTEM  
CERTIFIED BY DNV  
= ISO 9001 =  
= ISO 14001 =  
= OHSAS 18001 =