



**ELECTROFISHING SYSTEMS, LLC**

Reliability Simplicity Service

## Boat Electrofishing Systems

### Dependable, Efficient Equipment from ETS Electrofishing Systems

*Easy-to-operate design, effective over a wide range of water conductivities*

ETS Electrofishing Systems has provided quality boat, stream barge, and backpack electrofishing units to federal, state, and private agencies for over 25 years. We offer customized equipment with short lead times at the most competitive prices in the industry. More than 600 of our systems are in service in the United States, Canada, Mexico, and Australia, including over 270 boat systems. **ETS control boxes are fully and quickly repairable. We offer a RUSH REPAIR OPTION at no added cost.**



Our **MBS™ Boat Electrofishing Series** is a 240 VAC generator-powered electrofishing system and a cost-effective, easy-to-use solution for sampling lakes and rivers. A proven and trusted performer, it was developed with technical support from the University of Wisconsin, U.S. Fish & Wildlife Service, Wisconsin Department of Natural Resources, and many other federal and state agencies.

The USFWS completed a comparative evaluation of electrofishing control boxes, available online at [www.coloradoriverrecovery.org/documents-publications/work-plan-documents/arpts/2012/rsch/147.pdf](http://www.coloradoriverrecovery.org/documents-publications/work-plan-documents/arpts/2012/rsch/147.pdf). Based upon that evaluation and recommendations from other agencies, a consortium of three western states have standardized on our unit for the Colorado River Recovery project. They currently have 28 boxes in use. The states of Illinois and Wisconsin also have standardized on our boxes for most regions.

All ETS Electrofishing systems are customizable to meet your organization's needs. See detailed specifications and descriptions of our lake electrofishing equipment below. Boat hulls, booms, droppers, generators, and more are available through our custom boat manufacturers – we can supply a total system. All systems include a limited one-year parts and labor warranty.

Visit our website at [etselectrofishing.com](http://etselectrofishing.com) or contact us for more information about any of our electrofishing equipment, including complete stream barge and backpack systems.

#### ETS Electrofishing Systems, LLC

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*Our solar powered, zero-energy-cost office and shop in Madison, Wisconsin. Awarded an ENERGY STAR 100/100 rating.*



# MBS BOAT SERIES

## 240VAC generator-powered electrofishing boat system

*A cost-effective, easy-to-use solution for sampling lakes and rivers*

### Specifications

Weight, MBS control box	31 lbs (14.1 kg)
Dimensions	19" x 10" x 10"
Rated input power (standard 240 volt generator)	7200W
Output power, pulsed-DC peak (depends on Duty Cycle)	over 20,000W
Peak voltage (2 voltage ranges) -fully adjustable in 1 volt increments	Up to 600V
Peak current	45A std; 82A opt
Conductivity range (depends on options and duty cycle)	25-4000 $\mu$ S/cm
RATE (cont. variable) – capable of producing the new experimental high frequency pulse rates	1 - 1,000 pps
Resolution	1.0 pps
Accuracy	$\pm$ 5%
DUTY cycle (continuously variable)	1 - 95%
Resolution	1%
Accuracy	$\pm$ 2% absolute
RMS AC Voltage (std/optional with ext. transformer)	240/480VAC
RMS AC Current (std/optional with ext. transformer)	30/8A
"Shocking" time resettable LCD meter	min/sec or all sec

### Features and Options

- Heavy-duty, splash-resistant, galvanized steel control box with stainless steel front panel – Optional splash-proof construction available including controls, connectors, and displays
- Pulsed-DC (MBS-1D) or pulsed-DC/AC (MBS-2D) or AC-only (ACBS) versions available – over 20,000W (peak pulsed-DC) with a 7200W or higher capacity generator (a smaller generator can be used with correspondingly less output)
- Nominally rectangular pulse output in pulsed-DC mode – 45 amp peak current standard – 82 amp peak current optional
- Pulsed-DC rate from 1 - 1000 Hz; maximum duty cycle from 1 - 100% – All values **continuously** settable in one unit increments
- Up to 240VAC output in AC mode, 30 amps continuous – Optional 480VAC output, 8 amps continuous with separate booster transformer for use in low conductivity water – AC waveform is triac (dual SCR) controlled, 60 Hz only
- Back-lit digital LCD metering of peak output current and peak output voltage (pulsed-DC mode), or true RMS current and voltage (AC mode) – Displays are NEMA-4 rated splash-proof and clearly visible day and night
- Accumulating operating-time electromechanical timer – Separate resettable, back-lit, shocking-time LCD timer
- Electronic over-current protection for pulsed-DC operation with LED over-current fault lamp – 30 amp input circuit breaker protection for AC and pulsed-DC operation
- Many options available for low-voltage single or multiple footswitch, safety pressure mat and lanyard interlock control
- Many boom/dropper configurations available including collapsible arrays for a wide range of water conductivities
- Honda or lower-cost generator options
- Standard or user-specified control box receptacles (if matching your existing boat wiring connectors)

