



**FIELD ENVIRONMENTAL
INSTRUMENTS, INC.**



Smith-Root Electrofisher LR-24

Conductivity Range	10 to 1500 μ S/cm
Input Voltage	24VDC Nominal
Input Current	20A Max.
Input Monitoring	Battery voltage and current plus fuel gauge type display for battery voltage
Output Voltage	50 to 990V in 5V steps
Output Current	40A peak max, 4A continuous at 100V
Output Waveforms	Smooth DC, Pulsed DC, Burst of Pulses DC
Output Frequency	1 to 120Hz in 1Hz steps (Burst of Pulses frequencies up to 1000Hz)
Duty Cycle	1% to 99% in 1% steps
Waveform Storage	Save voltage, frequency, duty cycle and pulse type for 10 different waveforms
Output Power	400W maximum continuous, 39,600W peak
Operational Duty Cycle	40% Max. (192 seconds on 288 seconds off) at 40° C ambient 400VA output
Overload Protection	Excessive peak current, average current or over-temperature will shutdown the unit before damage can occur. Resets automatically when condition is corrected
Output Indicator	Audio tone for 30VDC and greater and increasing pulse rate for output power, Flashing red light, Status display for output voltage both average and peak, output current both average and peak and output power
Output On Timer	0 to 999,999 seconds, resettable via menu

Environmental Requirements	Operational altitude: -400 to 3000 meters; Relative humidity: 10% to 90% noncondensing; Operating temperature: 0° to 40° C; Storage temperature: -15° to 50° C
Construction	Sealed molded polyethylene and ABS case NEMA 4, IP 65
Safety Devices	Tilt switch: Forward 50°, backward 40°, sideways 45° all ± 10°, Immersion sensor, Electrode out of water sensor, Electode pole switch, Emergency stop switch, Battery compartment interlock, Battery fuseable link, Quick release shoulder harness
Battery	Choice of 24V sealed, deep discharge batteries. 2.2Ah, 7Ah or 12Ah
Battery Life	40 minutes continuous at 100W with 7Ah battery
Size and Weight	Height: 27.5 in (69.9 cm); Width: 14.5 in (36.9 cm); Depth: 14.5 in (36.9 cm); Weight: 33 lb. (15 kg) with 7Ah battery
Certifications	UL STD 61010A-1 CAN/CSA C22.2 STD NO. 1010.1