

## HARDWIRED EMS-LCHW50 & LCHW30 Surge Protection

Progressive Industries' Portable Electrical Management System (EMS) provides full RV surge and electrical protection against all adverse power conditions. Feel secure with multi-mode surge, voltage, polarity and lost/open neutral protection. Each unit includes a digital display, scrolling continuously through the power source information. A state-of-the-microprocessor provides peace of mind, day or night, even if you're away from your RV.



### Product Features:

- Over/Under Voltage Protection
- Open Ground, Open Neutral & Reverse Polarity Detection
- Open Ground, Open Neutral & Reverse Polarity Protection
- Accidental 240V Protection
- High & Low Voltage Protection (Low <104, High 132>)
- Frequency Protection (Low <104, High 132>)
- Mis-wired Pedestal Indication
- Surge Failure Indicator
- Current Indicator
- Previous Error Code
- Factory setting 16 sec. (136 seconds) delay for A/C Prot.
- A/C Frequency Protection
- Time Delay
- Adjustable Time Delay
- Thermally Protected
- Built-in Display
- Field Serviceable
- UL Certified
- UL Canadian Approved
- Lifetime Warranty
- Made in the USA



The EMS-LCHW units are shipped with the digital display and extra hardware tucked **INSIDE** the unit for safe shipping. Simply remove the lid.

### Error Code Chart

E 0	Normal Operating Condition
E 1	Reverse Polarity (hot and neutral wires reversed reversed )
E 2	Open Ground (no ground wire connection)
E 3	Line 1 High Voltage (line voltage above 132V)
E 4	Line 1 Low Voltage (line voltage below 104V)
E 5	Line 2 High Voltage (line voltage above 132V) LCHW50 models only
E 6	Line 2 Low Voltage (line voltage below 104V) LCHW50 models only
E 7	Line Frequency High (line frequency above 69Hz)
E 8	Line Frequency Low (line frequency below 51Hz)
E 9	Data Link Down
E10	Replace Surge Protector Module

### Product Specifications:

Specifications:	EMS-HW50C EMS-LCHW50	EMS-HW30C EMS-LCHW30
Ratings	240V/50A/12,000W	120V/30A/3,600W
Surge Protection	5-mode 3,580J/88,000A	3-mode 1,790J/44,000A
Dimensions	9" x 5" x 4"	9" x 5" x 3"
Response Time	<1 Nanosecond	<1 Nanosecond
Operating Temperatures	-40 C to +105 C	-40 C to +105 C