

# Battery Charger Board Wiring



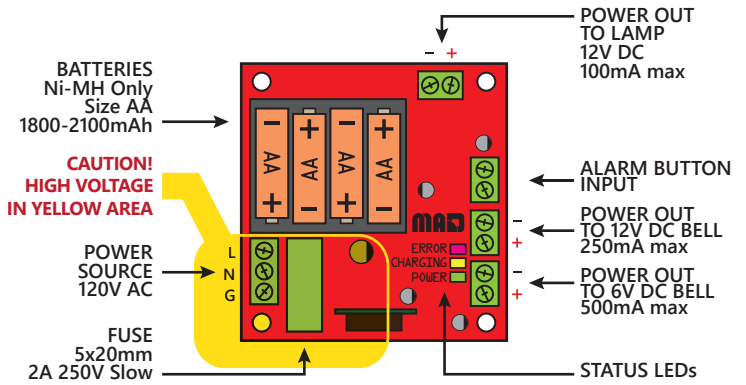
## For Emergency Lamp Systems

### OPERATING PRINCIPLE

The MAD Emergency Lamp Charger Board can be used in conjunction with a compatible bell and LED emergency lamp, providing power for alarm functions and backup cab lighting for a minimum of four hours during a power failure.

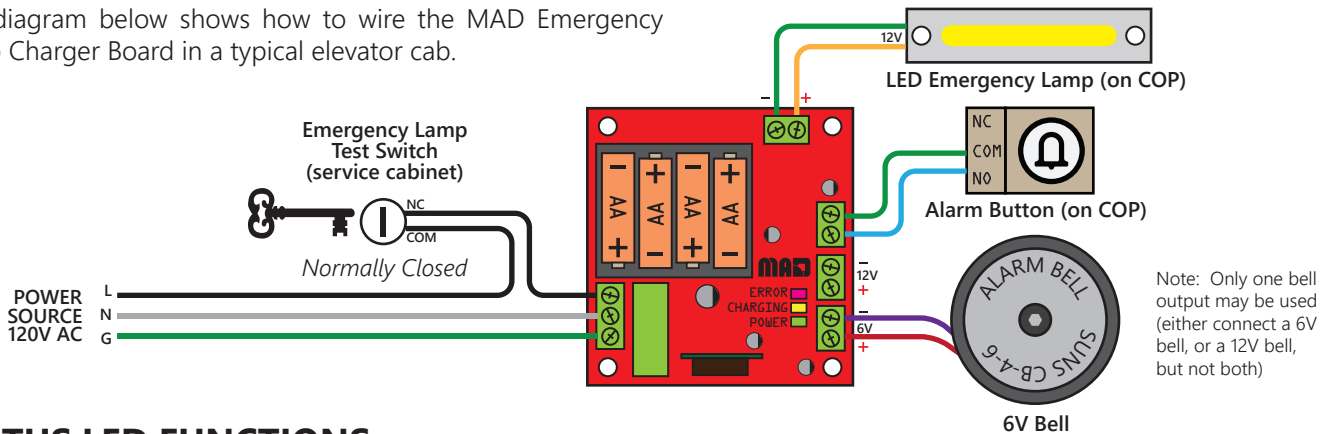
When power is present at the 120V AC Input, the microprocessor-controlled intelligent battery charger monitors the battery state and maintains the on-board batteries in a charged, ready-to-use condition. Closing the contacts on the alarm button input (e.g. by pressing an alarm button on the COP) will activate the bell and lamp outputs.

When the AC power fails, the lamp output activates automatically and remains on until power returns or until the batteries are depleted. A low-battery cutoff circuit shuts off the lamp when the batteries are almost drained, ensuring they are not damaged by excessive discharge. Batteries are recharged automatically when AC power is restored.

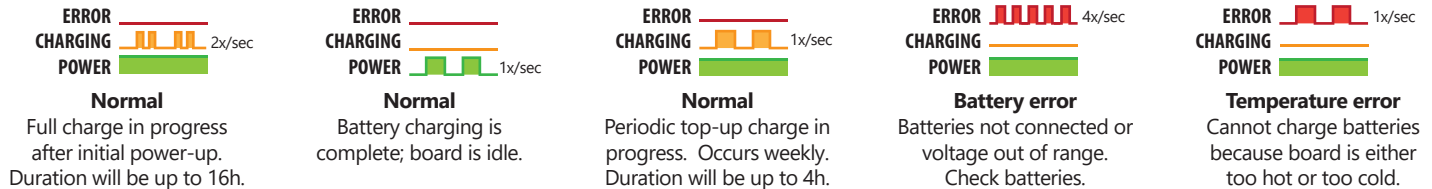


### WIRING EXAMPLE

The diagram below shows how to wire the MAD Emergency Lamp Charger Board in a typical elevator cab.



### STATUS LED FUNCTIONS



### SPECIFICATIONS

AC POWER INPUT:	120V AC 60Hz 3W Max	TEMPERATURE:	0°C-40°C (ambient)
FUSE (AC INPUT):	250V 2A Slow-blow 5x20mm	BACKUP TIME:	Minimum 4h with 100mA lamp (typical 8h with good batteries)
ALARM TERMINALS:	Connect only to dry contacts rated for bell voltage and current	STANDARDS:	Conforms to ASME Standard A17.5 Certified to CSA Standard B44.1
12V LAMP OUTPUT:	12V DC 100mA Max (continuous)	BATTERIES:	<b>Ni-MH batteries only</b> , size AA / HR6 1.2V 1800-2100mAh capacity, 4 pieces Replace all batteries at the same time.
6V BELL OUTPUT:	4-6V DC, 500mA Max (intermittent)		
12V BELL OUTPUT:	12V DC 250mA Max (intermittent)		