



ESL Series

6, 12 and 24 Volts
Steel Battery Units

Project/Location:

Contractor:

Date:

Prepared by:

Features

- Rugged steel cabinet with corrosion-resistant undercoating
- Removable front panel on cabinet provides easy access and allows unit to be mounted at ceiling height
- Solid-state pulse-type charger – current-limited, temperature-compensated, short-circuit proof and reverse-polarity protected.
- Unit comes standard with electronic lockout and brownout circuits
- Sealed dust-proof transfer relay, test switch and LED indicator lights
- Long-life, maintenance-free lead acid battery
- NEXUS® compatible

nexus®



Typical Specification

Supply and install a complete emergency lighting system as described herein and shown on the drawings.

The Emergi-Lite Smart Diagnostic micro-controller board shall supply the rated load for a minimum of a 1/2 hour to 87.5% of the rated battery voltage. The unit shall be rated 120V or 347V, 60 Hz and be CSA listed.

The charger shall be fully computer tested and its charge voltage factory set to $\pm 1\%$ tolerance. Chargers with field-adjusted potentiometers are not acceptable. A pulse-type charger shall be employed to promote long battery life and reduce the potential for grid corrosion. The charger shall provide a continuous high charge to recharge the battery, when the battery is at full capacity, the charger will shut-off. Periodically the charger shall provide a pulse of energy to keep the battery topped off. The pulse charger shall be current limited and precisely regulated by a micro-controller circuit, which samples the battery in relation to its temperature, state of charge and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit proof and reverse polarity protected. The unit shall be furnished with an electronic lockout circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit, which will activate the emergency lights when utility power dips below 75% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the load and circuitry from the fused output circuit when the battery reaches the end of discharge. The unit shall self-test for 1 minute every 30 days, 10 minutes on the 6th month and 30 minutes every 12 months. The unit shall be capable of full recharge in compliance with CSA specifications. The unit shall be furnished with sealed dust tight relay, a test switch and diagnostic LED indicator lights to continuously monitor the status of the unit: Battery Failure, Battery Disconnected, Charger Failure, Lamp Failure, Service Alarm, AC "ON", Charger High Rate. The unit shall come complete with tool-less emergency lighting heads requiring no tools to adjust or aim.

The unit shall be Emergi-Lite model: _____.

Wire Guards

460.0078-E	Wall Mount - "A" Cabinet
460.0081-E	Wall Mount - "B" Cabinet
460.0034-E	Wall Mount - "C" Cabinet

Power Consumption and Unit Rating

Model Number	AC Specs	Emergency power available for lamps				
		30min	1h00	1h30	2h00	4h00
06ESL36	120 to 347Vac	36	21	15	12	6
06ESL72		72	42	30	24	12
06ESL108		108	63	45	36	18
06ESL180		180	105	75	60	30
12ESL36		36	21	5	2	6
12ESL72		72	42	30	24	12
12ESL100		100	58	42	33	17
12ESL144		144	84	60	48	24
12ESL216		216	117	83	67	33
12ESL250		250	144	100	83	42
12ESL360		360	210	150	120	60
24ESL144		144	84	60	48	24
24ESL200		200	117	83	67	33
24ESL288		288	168	120	96	48
24ESL350		350	200	144	120	60
24ESL432		432	250	180	144	72
24ESL550		550	320	230	180	90
24ESL720		720	420	300	240	120

