



SERIES S12E, S24E

TYPE: _____
 CATALOGUE #: _____
 NOTES: _____



Industrial / Commercial Unit Equipment— 12 or 24V Maintenance-Free Lead Calcium Battery

Listed to UL924 Standards



Application Designed for applications requiring high capacity maintenance-free batteries, multiple remote capability or extended operating times. The 12 or 24V battery allows for longer remote wiring runs without voltage drop.

Features

- **HOUSING:** Heavy duty steel case with front access panel and gray enamel finish.
- **MOUNTING:** Conduit knockouts and rear keyhole mounting slots are provided. Mounting platform or bracket available.
- **ELECTRONICS:**
 - Automatic, temperature compensated, pulse type charger.
 - High capacity, automatic, dust-tight instantaneous transfer relay.
 - Low voltage disconnect prevents overdischarge of battery. Automatic brown out protection is provided.
 - Labor saving AC line latch prevents battery discharge during installation to a non-energized circuit.
 - Fused output circuits.
- **CONTROLS:**
 - Charger monitor LED indicates state of charge of the battery.
 - Amber AC-ON LED indicates AC power is on.
 - Momentary test switch allows for quick operational check of entire system.

■ **POWER REQUIREMENTS:**
120/277Vac, 60Hz, 0.3/.15 Amp

Battery

12 or 24 volt maintenance-free sealed Lead Calcium.

Lamp Heads

PAR 36 size, high impact resistant thermoplastic heads, furnished with high intensity incandescent lamps.
Note: Optional lamps available, refer to lamp charts.

Options

(Add Suffix to Model No.) Suffix
 Voltmeter (Not available with diagnostics) **.-V**
 Ammeter (Not available with diagnostics) **.-A**
 Disconnect Switch **...-DS***
 Time Delay (12 min.) **...-TD***
 Improved Diagnostics **...-ID*****
 Mist White Color (Replace -G with -M) **...-M**
 3-wire Cord & Plug **...-3CP****
 3-wire Cord & Plug (277V) **...-3CP-277****

* Not required with ID option

**Standard cord is 3 ft. custom lengths available.

***S24E, S12E4 and S12E5 only

Accessories

(Order as separate item) Model
 Wire Guard (S24E/S12E5/S12E6) **WG4**
 Mounting Bracket (S24E/S12E4) **MB-A**
 Mounting Platform (S24E/S12E5/S12E6) .. **MP-12**
 Wire Guard (S12E4) **WG3**
 Mounting Platform (S12E4) **MP-A**

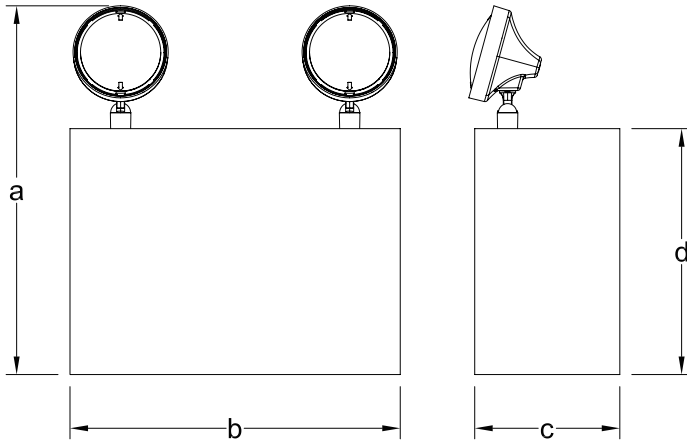
Note: Certain option combinations may affect the listing. Please contact the factory for specifics

Unit Selection Chart

Volts	Model No. (unit/Lamp Suffix)	Capacity in Watts to 87 1/2 % of Rated Battery Voltage				Standard Lamps			Cab Size
		1 1/2 Hrs.	2 Hrs.	3 Hrs.	4 Hrs.	Watts/Head	Type	Lamp Rplc. No.	
12	2S12E4/L25-G	200	150	107	85	25	Incand.	570.0031	C
	2S12E5/L25-G	300	225	165	127	25	Incand.	570.0031	D
	2S12E6/L25-G	400	300	214	170	25	Incand.	570.0031	D
24	2S24E4/L28-G	400	300	120	60	25	Incand.	570.0061	D

Specifications For Series S12E, S24E

Dimensions are approximate and subject to change



Cabinet	Dimensions			
	a	b	c	d
S12E4	18-3/8"	16-1/2"	7-1/4"	12-1/4"
S12E5 S12E6	18-3/8"	27"	7-1/4"	12-1/4"
S24E	18-3/8"	27"	7-1/4"	12-1/4"

GENERAL: The contractor shall furnish and install a 12V or 24V emergency lighting units, as indicated on all plans. Input power shall be 120/277Vac, 60 Hz.

HOUSING: The battery and all components shall be housed in a compact 18 gauge steel case, with front access cover. Finish shall be gray enamel.

LAMP HEADS: The unit shall be provided with one, two or three standard lamp assemblies constructed of high impact thermoplastic material, with access to lamp for replacement, and finished in a color to match the unit. The heads shall be fully adjustable horizontally and vertically.

BATTERY: The unit shall contain a 12 or 24 volt sealed, non-refillable, maintenance-free lead calcium battery. Capacity shall be as shown in Unit Selection Chart.

TRANSFER: The sealed dust-tight transfer relay shall automatically and instantaneously connect the DC lamp load to the battery upon failure of the normal AC supply, and shall disconnect the lamps when normal power is restored.

CHARGER ASSEMBLY: An automatic, temperature compensated, pulse type charger shall be provided. The charger shall be reverse polarity protected, short circuit proof and capable of recharging the battery in accordance with UL924.

A low voltage disconnect shall be provided to shut off the lamp load and circuitry when battery reaches 87½% discharge to protect battery from possible damage due to deep discharge. **Brownout circuit** shall be provided which activates emergency mode when AC power dips below 80-85% of nominal voltage. **AC line latch** circuit shall be provided which prevents battery discharge during installation to a non-energized circuit.

CONTROLS: **AC-ON LED** shall be provided to indicate the presence of AC power to the unit. **Charger monitor LED** shall be provided to indicate state of charge of the battery. **Momentary test switch** shall be provided to allow for periodic testing of the entire system.

WARRANTY: Entire unit (less lamps and fuses) shall carry a 3 year full warranty against defects in parts or workmanship under normal and proper use. The sealed lead calcium battery shall carry an additional 3 year pro-rata warranty.

MANUFACTURER:

Unit shall be **Lightalarms** Model _____

Ordering Information

Example: 2S12E4/L28-G-V-A

Number of Heads	Series	Capacity Indicator	Lamp Suffix	Option	Option
2 = 2 heads	S12E = series S24E = series	4 = capacity	/L25 = 12V 25W Incandescent (S12E) /L28 = 24V 25W Incandescent (S24E) <i>*See lamp data sheet for other lamp wattages.</i>	-G = gray enamel finish	-V = voltmeter -A = ammeter



Thomas & Betts