ACE-F50-55-1.4C

ELECTRICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Output Power Max</th>
<th>Input Power</th>
<th>Input Current</th>
<th>Min PF (full load)</th>
<th>Max THD (full load)</th>
<th>Output Current</th>
<th>T case Max</th>
<th>Min Starting Temp</th>
<th>Efficiency</th>
<th>Dimming Protocol</th>
<th>Dimming Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>50W</td>
<td>60W</td>
<td>0.50A@120V</td>
<td>≥0.90</td>
<td>≤20</td>
<td>15-55V</td>
<td>400mA -1400mA</td>
<td>+/ 5%</td>
<td></td>
<td>66˚C</td>
<td>0˚C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.22A@277V</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Description:

This AC Electronics UL Listed Emergency Backup Driver allows a single fixture to be used for both regular and emergency (loss of power) operations. If power fails, this emergency driver switches to “Emergency Mode”. It will then operate the LED modules for 90 minutes at an output voltage in the range of 15-55 V. It can be used in conjunction with switched and unswitched fixture applications. During Emergency operation, this driver will drive any LED module that is designed to accept a constant current input of 190mA and has an input voltage in the range of 15-55 VDC.

Product Features:

• At least 90 minute operation in emergency mode
• Wide range input voltage - range - 120-277VAC
• Test switch and AC Power-On LED indicator for self-diagnostics
• Operating Temperature Range 0˚C Through 55˚C
• Maximum Case Temperature ≤66˚C @ 3-year warranty
• Up to 71% Efficiency
• 5-year USA Backed warranty*
• Surge Protection - 3kV
• Open/Short/Over-Voltage/Over Temperature protection

SAFETY:

• UL and cUL Listed as an LED emergency driver (UL 924)
• UL/cUL Class 2
• UL Classified Field or Factory Installation
• Two-wire universal AC Input
• Self-sensing output voltage adjusts to various LED loads
• Includes battery status indicator
• Long life high temperature LiFePO4 battery
• Warranty: 5 years based on a max. case temp. of ≤60˚C*
• AC Driver maximum output current = 8.0 Amps @ 55 VDC
• Soft-switching to prevent spikes and protect the longevity of LED modules
• IP Rating: 64

Product Benefits:

• Title 24 compatible
• Maintains constant emergency light levels. No power/light degradation throughout the 90-minute runtime.
• Can be used with existing or new fixtures.
• LiFePO4 batteries have a life span up to 10 times longer than that of traditional lead acid batteries. They also operate with much lower resistance and consequently recharge at a faster rate.
• CEC Title 20 Compliant

Applications:

• New and existing fixtures
• Emergency back-up installations
• Emergency only fixtures
• With constant current Class 2 LED driver

5-Year USA-Backed Warranty*
See complete AC Warranty information for details
EMERGENCY POWER: Battery Type/Model No.: LiFePO4 6.4V with 3200mA

<table>
<thead>
<tr>
<th>Output Power</th>
<th>Operating Duration Min.</th>
<th>Battery Charge Current</th>
<th>Battery Charge Time Max.</th>
<th>Battery Voltage</th>
<th>Output Voltage</th>
<th>Output Current Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10W</td>
<td>90min.</td>
<td>185mA</td>
<td>24Hrs</td>
<td>6.4V</td>
<td>15-55V</td>
<td>190mA</td>
</tr>
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</table>

Dimensions

<table>
<thead>
<tr>
<th>Length</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>17.71&quot;</td>
<td>1.14&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Width</th>
<th>Mounting Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.69&quot;</td>
<td>17.24&quot;</td>
</tr>
</tbody>
</table>

Lead Lengths

<table>
<thead>
<tr>
<th>Black</th>
<th>14&quot;</th>
<th>Blue</th>
<th>14&quot;</th>
<th>Gray</th>
<th>15.2&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>14&quot;</td>
<td>Red</td>
<td>14&quot;</td>
<td>Led Indicator</td>
<td>30.7&quot;</td>
</tr>
<tr>
<td>Yellow/Black</td>
<td>14&quot;</td>
<td>Purple</td>
<td>15.2&quot;</td>
<td>&amp; Test Switch</td>
<td></td>
</tr>
</tbody>
</table>

INSTALLATION:

This emergency backup driver may be used with either a switched or unswitched fixture. If a switched fixture is used, an unswitched hot lead must be connected to this emergency backup driver to allow its battery to charge when AC power is available. The emergency backup driver

- Maximum remote mounting distance to LEDs is 18 feet.
- The emergency backup driver case should be grounded.

must be fed from the same branch circuit as the AC powered driver (if used). This emergency backup driver should NOT be installed with fixtures where the ambient temperature may fall below 0 °C (32°F).

- 18 AWG 600V/105°C tinned stranded copper lead-wires required for installation.
- The emergency backup driver shall be installed inside an electrical enclosure.

ACE Electronics/AC LED Power Designs warrants to the purchaser that each EMB Driver will be free from defects in material or workmanship for a period of 5 years when operated at max case temp of up to <60°C when properly installed and under normal conditions of use.

See aceleds.com for complete warranty policy.
Performance Characteristics

All-in-one Emergency Back-Up Driver

Input Voltage: 120-277V, 50.60Hz • Surge Rating 3Kv

LED INDICATOR & TEST SWITCH

NEUTRAL
LINE
YELLOW/BLACK
WALL SWITCH

Optional

Battery
DC Inverter

RED
BLUE
PURPLE
GRAY

V+ 0–10V
V- DIMMER
0 10V

DRIVER MUST BE GROUNDED
ACE-F50-55-1.4C

Performance Characteristics

Input Voltage: 120-277V, 50.60Hz • Surge Rating 3kV

Programmable, Digital, Wide-Range Adjustable Current & Dimming

Data is based upon tests performed by AC Electronics in a controlled environment and representative performance. Actual performance can vary depending on operating conditions. Specifications are subject to change without notice. All specifications are nominal unless otherwise noted.