



NOVA UAC-P 250W-550W

Emergency Lighting Power Supply - Pure Sine Wave

Project Name: _____ Model Number: _____
 Prepared By: _____ Date: _____

FEATURES AND BENEFITS

- 120V/120V - Optional 347V or 277V in remote cabinet
- Toggle switch for selectable normally on to normally off operation
- Display panel
- Operating Temperature: +10°C to +40°C
- 250W & 550W capacity
- Special Inspection required – CSA 22.2 No. 141

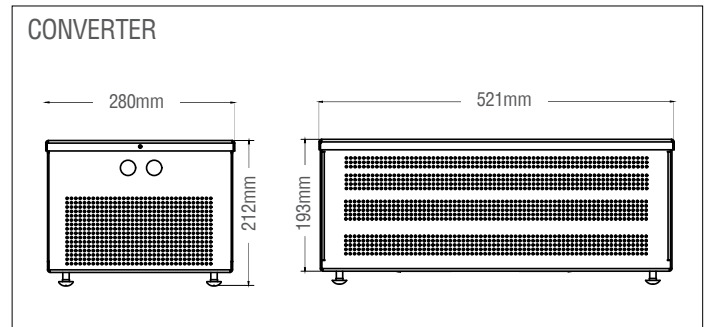
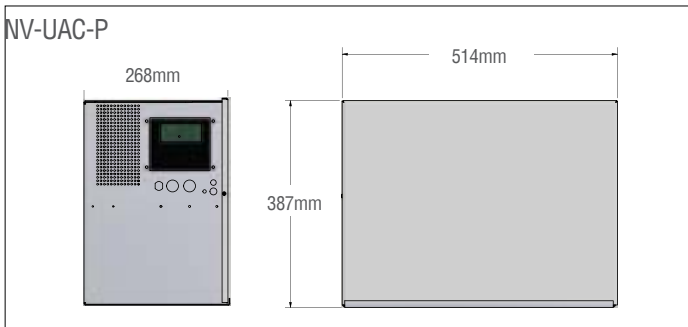
With the **NOVA UAC-P**, normally on lighting can be converted into emergency lighting in the event of a power failure. Often times, normal lighting will even provide greater illumination on the path of egress for added safety. Eliminate the need for remote heads and improve the aesthetics of the space using this alternative method of egress lighting.

With the **NOVA UAC** providing output AC power, the DC line voltage drop concern of a battery pack is eliminated. The **NOVA UAC PURE SINE WAVE** is suitable for LED, fluorescent, incandescent and most compact fluorescent lighting. The surge peak lighting load is 1200W for 0.5 seconds. Surge protection device has been built-in to the primary AC input circuit of the inverter unit.

PURE SINE WAVE

True sine wave power is required to ensure there is no interruption in delivering emergency power. The pure sine wave system is compatible with all power supplies, LED drivers and lighting ballasts. The **NOVA UAC-P** is a standby IPS system with a transfer time of 10 milliseconds, which is suitable for specified lighting loads under emergency backup.

DIMENSIONS



ORDERING GUIDE

NV-UAC-P - - -

| SERIES | WATTAGE | VOLTAGE | OPTIONS |
|----------|---------|--|--|
| NV-UAC-P | 250W | 120V/120V | CC (Custom colour) |
| | | 120V/347V | LC (Line cord) |
| | 550W | 120V/277V | TD (Time delay) |
| | | 347V/120V | TLP (Twist lock plug) |
| | | 347V/277V | AT (Auto test) |
| | | 277V/120V | GFCI (Receptable) |
| | | 277V/347V | BK (2 output breakers + 2 terminal blocks) |
| | | 277V/277V | TB (2 Terminal Blocks) |
| | | 347V/277V | MS (Mounting shelf) |
| | | 347V/347V | **FAI (Fire alarm interface - specify) |
| | | | FAINO (Fire alarm interface Normally Open) |
| | | | FAINC (Fire alarm interface Normally Closed) |
| | | FAI-6VDC (Fire alarm interface 6VDC) | |
| | | FAI-12VDC (Fire alarm interface 12VDC) | |

MODEL RATING GUIDE

| MODEL | RUN TIME | WATTAGE |
|-------|----------|---------|
| 250W | 30 mins | 250W |
| 250W | 90 mins | 108W |
| 250W | 120 mins | 75W |
| 550W | 30 mins | 550W |
| 550W | 90 mins | 220W |
| 550W | 120 mins | 180W |

REMOTE MOUNTED 347V OR 277V CONVERTER 2KVA

| SERIES | DESCRIPTION |
|---------------|---|
| 100003100-032 | 347V or 277V in step down/ 347V or 277V out step up |
| 100003100-043 | 120V in / 347V or 277V out step up |

NOTE: Converter is a separate cabinet

NOTE: Not recommended for use with HID lighting

NOTE: **Specify open/closed/6-24 VAC

NOVA UAC-P 250W-550W

AC EMERGENCY LIGHTING

Using the **NOVA UAC** to convert normally-on lighting into emergency lighting provides greater safety, savings and flexibility. There is the potential for greater illumination on the path of egress with general lighting. By making use of the general lighting you will save the cost of additional emergency lighting battery units and remote heads. Provide a more architecturally pleasing design by eliminating the need for remote heads in the space. With AC power input and output, the installation will be more flexible and there will be no concern of voltage drop to the loads.

DISPLAY PANEL

The **NOVA UAC** unit is supplied with a panel which displays the input system status and battery level. An audible alarm is standard that will sound to indicate if the battery voltage is low. In addition, the battery condition and any faults are communicated through the illuminated panel showing the real-time operational data and messages.

BATTERY TECHNOLOGY

The **NOVA UAC** is designed with a maintenance free, sealed valve regulated lead acid battery that provides a minimum emergency duration of 30 minutes (for the listed rating). Recharge time of the battery is twenty-four [24] hours.

IMPORTANT: LED LIGHTING

The efficiency of external LED power supplies/drivers needs to be considered in all load calculations. Consult factory for more information.

INSTALLATION

The **NOVA UAC** unit is suitable for surface wall mounting in indoor installation environments. The cabinet is supplied with four key-hole slots for various wall mounting options with the additional support of a mounting shelf. The mounting shelf must be suitable to handle a weight of 100 lbs. depending on the unit supplied. Install with at least 12" (30cm / 300mm) clear space on both ends and do not block ventilation holes.

CONSTRUCTION

The **NOVA UAC** is constructed from a durable 14 gauge steel housing. Stamped conduit knockouts are standard and an optional 120VAC removable line cord is optional on all **NOVA UAC** units. Loads are connected to sturdy terminal blocks. The **NOVA UAC** is supplied standard in a white powder coat, baked finish for durability. The **NOVA UAC** unit offers ventilation holes for efficient cooling and operation of the charging system.

NOVA UAC-P units are available in 250W & 550W. The **NOVA UAC** utilizes a high performance inverter allowing the units to be loaded to 100% rated capacity. Input voltage is standard 120VAC with 120VAC output, other voltages are optional.

SELF-DIAGNOSTIC

The **NOVA UAC** is constantly monitored by a self-diagnostic system. A red, green and orange LED light will indicate utility, battery condition and fault status. The self-diagnostic system monitors the brownout protection, battery overload, battery condition and low voltage disconnect. Before the event of the end of run-time / low voltage disconnect, an audible alarm will sound.

OPERATION

The units are provided with a field selectable toggle switch for Normally ON or Normally OFF operations.

Normally ON operation 120, 277 or 347VAC output is provided to the lighting circuit. This is the default setting.

Normally OFF operation, the output circuit to the light will only turn on during a power failure.

BELUCE AUTO-TEST (AT)

The BeLuce auto-test system automatically performs one 5 minute discharge test monthly and every 6 months it performs two 30 minute discharge tests, 24 hours apart. This tests both full battery capacity and recharge capability. The information is communicated simply and intuitively to maintenance personnel via a single multi-colour LED.