



# NOVA UAC-P 2500W

Emergency Lighting Power Supply - Pure Sine Wave

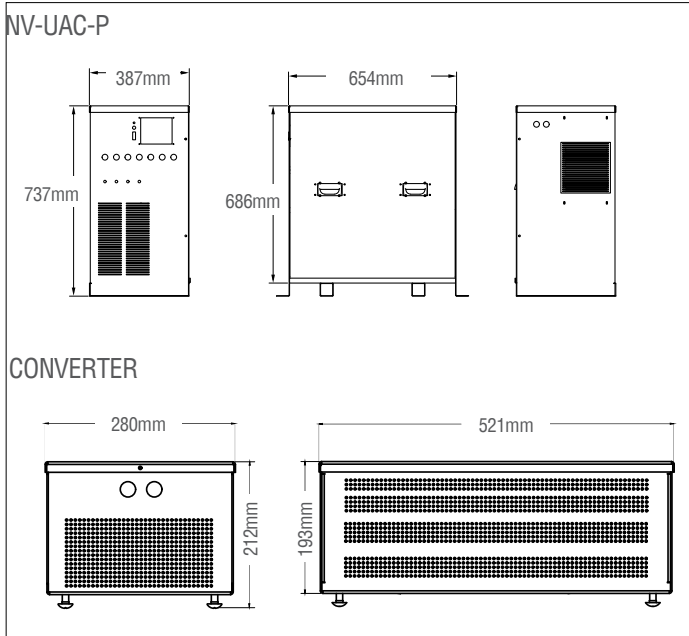
Project Name: \_\_\_\_\_ Model Number: \_\_\_\_\_  
 Prepared By: \_\_\_\_\_ Date: \_\_\_\_\_

## 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
- 2500W capacity
- CSA 22.2 No. 141-15 Performance Certified

Using the **NOVA UAC-P** 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.

## DIMENSIONS



## MODEL RATING GUIDE

MODEL	RUN TIME	WATTAGE
2500W	30 mins	2500W
2500W	60 min	2000W
2500W	90 mins	1500W
2500W	120 mins	1000W

The **NOVA UAC PURE SINE WAVE** is suitable for fluorescent, incandescent, LED and most compact fluorescent lighting. The surge peak lighting load is 6000W for 0.5 seconds. It is important to take the peak load into consideration when choosing your load type. 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.

## ORDERING GUIDE

NV-UAC-P - - -

SERIES	WATTAGE	VOLTAGE	OPTIONS
NV-UAC-P	2500W	120V/120V 120V/347V 120V/277V 347V/120V 347V/277V 277V/120V 277V/347V 277V/277V 347V/347V	CC (Custom colour) TD (Time delay) TLP (Twist lock plug, 120V only) AT (Auto test) BK (Output breaker - specify 2,3,4) WS (Wall switch, 120V only) *TB (2 Terminal Blocks) **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)

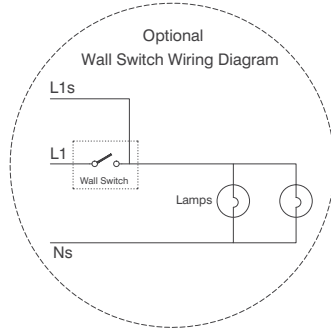
NOTE: \*Not recommended for use with HID lighting. \* Two additional circuit terminal blocks - 4 in total.  
 NOTE: \*\*Specify open/closed/6-24 VAC

## REMOTE MOUNTED 347V OR 277V CONVERTER 3KVA

SERIES	DESCRIPTION
100003100-038	347V or 277V in step down / 347V or 277V out step up
100003100-039	347V or 277V in / 120V out step down
100003100-040	120V in / 347V or 277V out step up

Voltage converter will be built in a separate cabinet

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Wall Switch Option (WS): Provides an internal relay which allows two circuits of emergency power to the lights regardless of the wall switch position (on or off).  
NOTE: Three conductors required to wall switch from inverter's output, see diagram.

## BATTERY TECHNOLOGY

The **NOVA UAC-P** 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.

## INSTALLATION

The **NOVA UAC-P** unit is designed to be floor mounted in indoor installation environments. The units are elevated on supports for flood protection and have anchor holes for secure mounting. The fully enclosed housing top offers added drip protection. Install with at least 12" (30cm / 300mm) clear space on both ends and do not block ventilation holes.

## ELECTRICAL

The electrical input rating of the **NOVA UAC-P** is 120V, 60Hz. 25.0A. 347V & 277V are optional.

## OUTPUT

Standard with two circuit terminal blocks for output. Two additional terminal blocks (4 total) are optional.

## CONSTRUCTION

The **NOVA UAC-P** 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-P** is supplied standard in a white powder coat, baked finish for durability. The **NOVA UAC-P** unit offers ventilation holes for efficient cooling and operation of the charging system.

## DISPLAY PANEL

The **NOVA UAC-P** unit is supplied with a panel which displays input and output rating, load status, charge current and battery voltage. 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.

## SELF-DIAGNOSTIC

The **NOVA UAC-P** 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 347VA 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.

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## TERMINAL BLOCK DIAGRAM

