



## 3100S-PKG Solar Powered Subscriber

### Overview

Grow your network and expand your services with the 3100S-PKG Solar Powered Subscriber from AES. This product enables network owners to monitor remote, outdoor applications on their AES networks and can also be used as a repeater to strengthen an existing network where electrical power is unavailable.



### Applications for Use

#### NETWORK REPEATER

Use as a repeater in areas where electrical hookup is limited or unavailable, i.e., on the roof of a commercial building without standard power.

#### AUTOMATED EXTERNAL DEFIBRILLATORS

Monitor the use of AEDs in outdoor locations such as on a golf course or sporting venue.

#### PANIC BUTTONS & ALARMS

Monitor panic buttons on college campuses, outdoor parking lots, etc., and warning alarms for outdoor applications such as at beaches or on ski slopes.

#### OUTDOOR LIFT STATIONS

Monitor levels at outdoor lift stations or in common flood zones.

### What's Included?

AES's new Solar Powered Subscriber comes in a NEMA-rated enclosure for outdoor use and includes:

- (1) AES-IntelliNet® Transceiver
- (1) 2.0 IntelliNet Board
- (1) 4-Zone Relay Board\*
- (1) 50W Solar Panel
- (1) Solar Charging Controller
- (1) Phantom Antenna with External Mount
- (1) Mounting Brackets for Subscriber
- (1) Mounting Brackets for Solar Panel



**SOLAR ASSEMBLY**

\*The 4-zone relay board included is for wired sensors that control devices at the installation site.

# Technical Specifications

## ENCLOSURE DIMENSIONS

14" H X 14" W x 5" D  
(35.56cm H x 35.56cm W x 12.7cm D)

## ENCLOSURE WEIGHT

Without Battery, 7.05lbs  
With Battery, 19.2lbs

## ENCLOSURE COLOR

Beige

## ENCLOSURE RATING

NEMA-4

## ENCLOSURE MOUNTING BRACKET

Included for 1.75"-2.5" OD pole

## SOLAR PANEL

50 Watt  
5400 Pa Positive load (Snow load) Equates to 113 lbs per sq ft of snow  
2400 Pa Negative load (Wind rating) Equates to 130 mph

## SOLAR PANEL MOUNTING

Included for 2" OD pole

## SOLAR PANEL DIMENSIONS

21.30" H x 20.08" W x 1.18" D  
(54.1cm H x 51cm W x 3cm D)

## SOLAR INSTALLATIONS

Solar Subscriber should ideally be placed no more than 25-30 ft away from the solar panel

## BATTERY

12 Volt 18 Amp  
*The 12V 18Amp Battery will support function of Subscriber with relay board, powering either a single relay 100% of the time or all four relays for 25% of the time, for a period of 72 hours.*

## NUMBER OF INPUTS

Nominal circuit voltage, Vdc, 2.5 VDC Max. short circuit current, 1.2 mA. (4 ea.)

## TYPE OF INPUTS

Dry contact  
Nominal circuit voltage, Vdc, 5 VDC

## NUMBER OF OUTPUTS

System Trouble (1 ea.); Switched Output (4 ea.)

## TYPE OF OUTPUTS

System Trouble and Switched Output: Relay, Form C (NO, NC, C), 24V 1 A resistive max. load

## RF OPERATING FREQUENCY

Standard UHF Frequency range 450-470 Mhz, Contact AES for other UHF and VHF frequencies

## OPERATING TEMPERATURE

-4°F to 158°F (-20°C to 70°C)

## STORAGE TEMPERATURE

-13°F to 140°F (-25°C to 60°C)



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