STANPRO

Project : _____ Type : _____

Drawn by : _____ Catalogue # : _____ Date : _____

*Series Spec Sheet*

# SNR

## SINGLE PHASE INVERTER

The SNR is a single phase inverter, designed with the industry-leading compact footprint and are available with robust communication options. These highly efficient systems range from 1.75 kW to 16.7 kW.

### FEATURES AND SPECIFICATIONS

- **Standard Features**
  - 98% Efficient (Typical)
  - PWM/IGBT Technology and Micro-Controller
  - User Programmable with Password Protection
  - Automatic Event, Test and Alarm Log
  - RS232 Communications Port
  - Input Circuit Breaker
  - 2ms Transfer Time
  - Low Audible Noise
  - NEMA Type 1 Single Cabinet Space-Saving Design
  - 65kAIC Interrupting Rating

- **Optional Features**
  - Enhanced Communications
    - Expanded Building Management Protocols
    - IoT Connect Cloud Software
  - Internal or External Maintenance Bypass
  - Summary Dry Form C Contacts
  - Remote Meter Panel
  - Output Circuit Breakers:
    - 1750-5000W: up to 11 supervised
    - 6250-7500W: up to 16 supervised
    - 10000-16700W: up to 22 supervised
  - Normally Off Output
  - Output Trip Alarms
  - Remote Summary Alarm Panel

- **Specifications**
  - Input 120, 277 or 347VAC 1 Phase 2 Wire Plus Ground
  - Output 120, 277 or 347VAC 1 Phase 2 Wire Plus Ground
  - Output Load Power Factor .5 Lag to .5 Lead
  - Compatible with LED Drivers
  - Forced Air Cooling Only During Emergency Operation; No Filters Required
  - Output Voltage Distortion Less than 3% THD for Linear Loads
  - Compatible with Generators
  - 30, 60, 90, 120 Minute Runtime available
  - Inverter Operating Temperature 0°C to 40°C
  - Battery Operating Temperature 20°C to 30°C

- **Approvals**
  - cUL to CSA 22.2 #141-15



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# System Display Functions

### ADVANCED TECHNOLOGY

Designed with advanced Pure Sine Wave technology, the SNR provides direct AC power and full illumination to all lighting sources. With industry-leading efficiencies, they run cool and reduce the overall operating costs of emergency lighting systems.

### INDUSTRY LEADING COMPACT FOOTPRINT

Designed with industry leading compact footprint, the SNR allows building owners to comply with emergency lighting codes without sacrificing valuable floor-space. Featuring a NEMA Type 1 space-saving design these inverters fit easily into electrical rooms where floor space is limited!

# INVERTER.CONNECT

Inverter Connect is a cloud-based platform that allows users to monitor and receive alerts about their emergency lighting inverter systems. IoT Inverter Connect streamlines system communications and sends users notifications on their computers, tablets or smartphone devices. The web-based platform allows any device that connects to the internet to log in to the system.

## Enhances Building Safety

- Proactively monitors & notifies of critical issues that could affect building safety.
- Proactive maintenance solidifies confidence that the lights will illuminate during an emergency.

## Saves Times

- User-friendly design makes it easy to find the most crucial information quickly.
- Easy-to-use dashboard enables a status check of a fleet of inverters from anywhere.

## Connectivity

- Receive status and alarm notifications by SMS and/or email.
- See the results of your inverters' periodic self-tests. View detailed real-time inverter telemetry.
- Accessible from any device connected to the internet.

## Future-Ready Design

- Software is adaptable to meet the demands of future technological advances.

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## ORDERING GUIDE

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | — | | | S | | | | | / |

| Series | Voltage Input-Output | Capacity Rating (W)* | Battery Type | Output Breakers[1] | | | | Options | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Output | Voltage/Poles | Amp Rating | Quantity[2] | | |
| **SNR30** | **A-A -** 120 Input; 120 Output | **1 750** | **S -** Standard | **O -** Normally On | **A -** 120V 1-Pole | **10** | **T01-T22** | **Standard Features** | |
| **SNR60** | | **2 500** | | **F -** Normally Off | **B -** 208V 2-Poles | **16** | | **C -** | Status Monitoring Contacts Dry Form C |
| **SNR90** | **A-AE -** 120 Input; 120/277 Output | **3 750** | | | **C -** 240V 2-Poles | **20** | | **DT -** | Drip Top (NEMA 2) |
| **SNR120** | | **5 000** | | | **E -** 277V 1-Pole | **25** | | **Optional Features** | |
| | **B-A -** 208 Input; 120 Output | **6 250** | | | **H -** 347V | **32** | | **BBM -** | Internal Maintenance Bypass (Break Before Make) |
| | | **7 500** | | | **K -** 480V 2-Poles | **40** | | **BL -** | Output Circuit Breaker Lock(s) |
| | **C-AC -** 240 Input; 120/240 Output | **10 000** | | | | **50** | | **BTM -** | Battery Temperature Monitor[3] |
| | | **12 500** | | | | **63** | | **F -** | Fast Charge |
| | **E-A -** 277 Input; 120 Output | **16 700** | | | | | | **I -** | Inverter on Dry Form C Contact |
| | | | | | | | | **L -** | Load Control Relay (Line Voltage Dimmer or Switch Bypass) |
| | **E-E -** 277 Input; 277 Output | | | | | | | **MBB -** | Internal Maintenance Bypass (Make Before Break) |
| | | | | | | | | **O -** | Output Transfer Delay |
| | **E-EA -** 277 Input; 277/120 Output | | | | | | | **P -** | Remote Status Panel (Status with Alarms & Silence Switch; Requires C Option) |
| | **B-AC -** 208 Input; 120/240 Output | | | | | | | **R -** | Remote Meter Panel |
| | | | | | | | | **RA -** | Remote Summary Alarm Panel |
| | **H-H -** 347 Input; 347 Output | | | | | | | **S -** | Summary Fault Form C Dry Contacts |
| | | | | | | | | **SM -** | Seismic Mounting[4] |
| | **B-AB -** 208 Input; 120/208 Output | | | | | | | **PICK 1** | |
| | | | | | | | | **BIP -** | BACnet IP |
| | | | | | | | | **IOT -** | IoT Inverter Cloud Connect |
| | | | | | | | | **MIP -** | Modbus TCP/IP |

[1] Output breakers are optional

[2] Maximum out breakers available:
- 1 750-5 000W: 11 supervised
- 6 250-7 500W: 16 supervised
- 10 000-16 700W: 22 supervised
- 347V : 14 supervised

[3] BTM option only available on the following sizes: 10 000, 12 500, 16 700W

[4] Anchorage based on calculations. For systems requiring OSHPD/Withstand testing, please contact the factory

* Capacity changes with runtime. See table page 5 for actual capacity rating.

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## OPTION TABLE

| Option Code | Option Name | Description |
|---|---|---|
| **BBM** | Internal Maintenance Bypass (Break-Before-Make) | Toggle switch designed to disconnect inverter from electrical system for maintenance (Break Before Make) |
| **BIP** | BACnet IP | "MSTP" allow upload of FMP data via RS232 intermediate device. This info can then be downloaded to customer device. Allows direct communication via IP |
| **BL** | Output Circuit Breaker Lock(s) | Allows customer to lock the output circuit breaker in on or off position |
| **BTM** | Battery Temperature Monitor | 1. Warning alarm: warns when battery temperature is getting too high. 2. Absolute alarm: when temperature reaches high temp this shuts down the string of batteries where the hot battery is. |
| **C** | Status Monitoring Contacts | 5 form C dry contacts: 1. System in Bypass 2. Summary Alarm: any alarm in the FMP 3. Output trip alarm 4. Utility failure 5. Inverter on |
| **DT** | Drip Top (NEMA 2) | Metal piece designed to direct falling water away from the unit |
| **EMBP** | External Maintenance Bypass (Make-Before-Break) | Maintenance bypass switch mounted external to the system. Cannot use with output circuit breakers |
| **F** | Fast Charge | Allows the system to recharge in 12 hours from LVD |
| **I** | Inverter on Dry Form C Contact | Form C dry contact which opens when inverter is on |
| **IOT** | IOT inverter Connect Cloud communication | System using the Cloud to allow monitoring of multiple systems in one location |
| **L** | Load Control Relay (Line Voltage Dimmer or Switch Bypass) | EQUAL TO AN LVS EPC-2-D |
| **MBB** | Internal Maintenance Bypass Make Before Break | Toggle switch designed to disconnect inverter from electrical system for maintenance (Make Before Break) |
| **MIP** | Modbus TCP/IP | "MSTP" allow upload of FMP data via RS232 intermediate device. This info can then be downloaded to customer device. Allows direct communication via IP |
| **O** | Output Transfer Delay | Device designed to delay transfer adjustable 0-7.5 seconds, factory set at 3 seconds. Used when control system cannot detect the fast transfer. |
| **P** | Remote Status Panel (Status alarms, Requires C Option) | Single gang box showing status of alarms, requires C option |
| **R** | Remote Meter Panel | Full size meter panel mounted remotely in a NEMA 1 enclosure |
| **RA** | Remote Summary Alarm Panel | LED indicator and Sound alert |
| **S** | Summary Fault Form C contacts | Relay contact showing any alarm |
| **SM** | Seismic Mounting | Instructions and hardware for mounting system in standard seismic applications |
| **T** | Output Trip Alarm | Alarms when any output circuit breaker is tripped |

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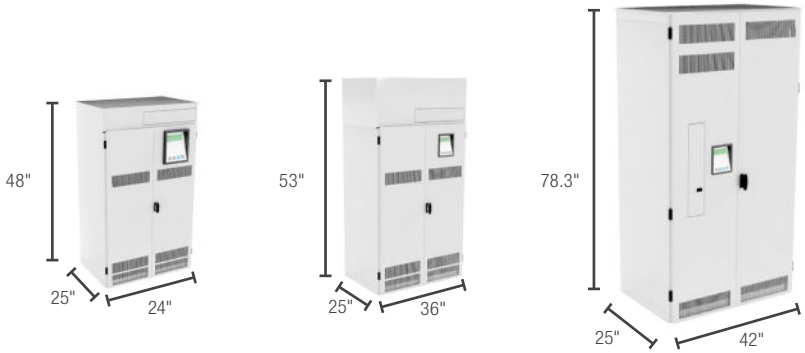
## DIMENSIONS




| Power Rating (kW) | Voltage IN-OUT | Cabinet Dimensions | | | | Batteries | | Total System Weight |
|---|---|---|---|---|---|---|---|---|
| 30 min. | (VAC) | Width (in) | Height (in) | Depth (in) | Weight (lbs) | No. of Batteries | Weight (lbs) | |
| 1.75 | 120 or 277 | 24 | 48 | 25 | 247 | 4 | 287 | 534 |
| | 347 | 54 | | | 396 | | | 683 |
| 2.50 | 120 or 277 | 24 | 48 | 25 | 263 | 4 | 287 | 550 |
| | 347 | 54 | | | 412 | | | 699 |
| 3.75 | 120 or 277 | 24 | 48 | 25 | 280 | 6 | 430 | 710 |
| | 347 | 54 | | | 441 | | | 871 |
| 5.00 | 120 or 277 | 24 | 48 | 25 | 297 | 8 | 574 | 871 |
| | 347 | 54 | | | 467 | | | 1 041 |
| 6.25 | 120 or 277 | 36 | 53 | 25 | 418 | 10 | 717 | 1 135 |
| | 347 | 66 | | | 597 | | | 1 314 |
| 7.50 | 120 or 277 | 36 | 53 | 25 | 444 | 12 | 860 | 1 304 |
| | 347 | 66 | | | 636 | | | 1 496 |
| 10.0 | 120 or 277 | 42 | 78.3 | 25 | 940 | 12 | 860 | 1 800 |
| | 347 | 72 | | | 1 145 | | | 2 005 |
| 12.5 | 120 or 277 | 42 | 78.3 | 25 | 980 | 15 | 1 076 | 2 056 |
| | 347 | 72 | | | 1 200 | | | 2 276 |
| 16.7 | 120 or 277 | 42 | 78.3 | 25 | 1 030 | 20 | 1 434 | 2 464 |
| | 347 | 72 | | | 1 265 | | | 2 699 |

| Power Rating (kW) | | | Voltage IN-OUT | Cabinet Dimensions | | | | Batteries | | Total System Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| 60 min. | 90 min. | 120 min. | (VAC) | Width (in) | Height (in) | Depth (in) | Weight (lbs) | No. of Batteries | Weight (lbs) | |
| 1.75 | 1.53 | 1.31 | 120 or 277 | 24 | 48 | 25 | 247 | 4 | 287 | 534 |
| | | | 347 | 54 | | | 396 | | | 683 |
| 2.50 | 2.19 | 1.88 | 120 or 277 | 24 | 48 | 25 | 263 | 4 | 397 | 660 |
| | | | 347 | 54 | | | 412 | | | 809 |
| 3.75 | 3.28 | 2.81 | 120 or 277 | 24 | 48 | 25 | 280 | 6 | 595 | 875 |
| | | | 347 | 54 | | | 441 | | | 1 036 |
| 5.00 | 4.38 | 3.75 | 120 or 277 | 24 | 48 | 25 | 297 | 8 | 794 | 1 091 |
| | | | 347 | 54 | | | 467 | | | 1 261 |
| 6.25 | 5.47 | 4.69 | 120 or 277 | 36 | 53 | 25 | 418 | 10 | 992 | 1 410 |
| | | | 347 | 66 | | | 597 | | | 1 589 |
| 7.50 | 6.56 | 5.63 | 120 or 277 | 36 | 53 | 25 | 444 | 12 | 1 190 | 1 634 |
| | | | 347 | 66 | | | 636 | | | 1 826 |
| 10.0 | 8.75 | 7.50 | 120 or 277 | 42 | 78.3 | 25 | 940 | 12 | 1 428 | 2 368 |
| | | | 347 | 72 | | | 1 145 | | | 2 573 |
| 12.5 | 10.9 | 9.38 | 120 or 277 | 42 | 78.3 | 25 | 980 | 15 | 1 785 | 2 765 |
| | | | 347 | 72 | | | 1 200 | | | 2 985 |
| 16.7 | 14.6 | 12.5 | 120 or 277 | 42 | 78.3 | 25 | 1 030 | 20 | 2 380 | 3 410 |
| | | | 347 | 72 | | | 1 265 | | | 3 645 |

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## HEAT LOSS TABLE

| 30 Minute Run Time | | 60 Minute Run Time | | 90 Minute Run Time | | 120 Minute Run Time | |
|---|---|---|---|---|---|---|---|
| Ouput Rating (kW) | Heat Loss (BTU/h) | Ouput Rating (kW) | Heat Loss (BTU/h) | Ouput Rating (kW) | Heat Loss (BTU/h) | Ouput Rating (kW) | Heat Loss (BTU/h) |
| 1.75 | 119 | 1.75 | 119 | 1.53 | 104 | 1.31 | 90 |
| 2.50 | 171 | 2.50 | 171 | 2.19 | 149 | 1.88 | 128 |
| 3.75 | 256 | 3.75 | 256 | 3.28 | 224 | 2.81 | 192 |
| 5.00 | 341 | 5.00 | 341 | 4.38 | 298 | 3.75 | 256 |
| 6.25 | 426 | 6.25 | 426 | 5.47 | 373 | 4.69 | 320 |
| 7.50 | 512 | 7.50 | 512 | 6.56 | 448 | 5.63 | 384 |
| 10.0 | 682 | 10.0 | 682 | 8.75 | 597 | 7.50 | 512 |
| 12.5 | 853 | 12.5 | 853 | 10.9 | 746 | 9.38 | 639 |
| 16.7 | 1139 | 16.7 | 1139 | 14.6 | 997 | 12.5 | 854 |

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