

# CHLORIDE

by 

## Exit/Emergency

Synthesis CH2 series

Single Phase Uninterruptible  
Power Supply, 1000VA



Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

### Example: CH2AA1.0S001X

| CH2  |  | 1.0           |  |                             |  |   |  |
|--|--|---------------|--|-----------------------------|--|---|--|
| Series   | Voltage Config. Input/Output                 | Unit Size     | Battery Time                           | NoI                         | Qty Ckt Breakers   | Qty NoI Ckt Breakers  | Options  |
| CH2 - Chloride<br>Synthesis CH2<br>UPS System for<br>Emergency<br>Lighting<br>Applications | AA - 120/120<br>JJ - 277/277<br>JA - 277/120 | 1.0 - 1000 VA | S - 90 min<br>X - 10 min<br>Y - 20 min | 0 - No<br>1 - Yes w/<br>TDT | 01X - 1 OCB*<br>02X - 2 OCB<br>03X - 3 OCB<br>04X - 4 OCB<br>.<br>.<br>12X - 12 OCB<br><br>01A - 1 OCBA<br>02A - 2 OCBA<br>03A - 3 OCBA<br>.<br>.<br>06A - 6 OCBA<br>(maximum 12 pole<br>spaces) | A - 1<br>B - 2<br>C - 3<br>D - 4<br>E - 5<br>F - 6<br>G - 7<br>H - 8<br>I - 9<br>J - 10<br>K - 11<br>L - 12<br>Z - None | FSU - Start-Up Service<br>EXT - Extended Warranty <sup>1</sup> |

\* 1 OCB is standard, substitute corresponding designator for optional configurations.

#### Footnotes

<sup>1</sup> EXT option only available with FSU.  
<sup>2</sup> Optimum operating temperature of batteries is 77°F (25°C).  
 Temperatures above 85°F (30°C) adversely impact battery life.

#### unit check list

Catalog No: \_\_\_\_\_

VA Rating: 1000

Battery Type: Sealed Lead Calcium

Operating Time: 90/20/10 Min.

Utility Input: \_\_\_\_\_ VAC, Single Phase

Output Circuit Breakers:

|  |                                      |                                       |   |                             |
|--|--------------------------------------|---------------------------------------|---|-----------------------------|
| Qty: _____ AC Volts: _____ Amps: _____ | Normally ON <input type="checkbox"/> | Normally OFF <input type="checkbox"/> | Trip Alarm YES <input type="checkbox"/> | NO <input type="checkbox"/> |
| Qty: _____ AC Volts: _____ Amps: _____ | ON <input type="checkbox"/>          | OFF <input type="checkbox"/>          | YES <input type="checkbox"/>            | NO <input type="checkbox"/> |
| Qty: _____ AC Volts: _____ Amps: _____ | ON <input type="checkbox"/>          | OFF <input type="checkbox"/>          | YES <input type="checkbox"/>            | NO <input type="checkbox"/> |
| Qty: _____ AC Volts: _____ Amps: _____ | ON <input type="checkbox"/>          | OFF <input type="checkbox"/>          | YES <input type="checkbox"/>            | NO <input type="checkbox"/> |

Options:  FSU  EXT

Remarks: \_\_\_\_\_



# CH2 Synthesis Single Phase Uninterruptible Power Supply

1000 VA

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## codes and standards

- UL 924 listed

## construction

- Free standing, NEMA 1 enclosure with lockable control access panel.
- Double conversion, no interruption.
- Solid state pulse width modulated inverter.
- Internal inverter bypass switch.
- Standard, UL 924 compliant, 90 minute battery back up.
- UL 924 auxiliary equipment 10 and 20 minute back up available.
- Microprocessor control and diagnostic system.
- LED array system status panel
- Fault annunciating audible alarm.
- Current limiting start sequence.
- Single output circuit breaker is standard, additional circuit breakers (OCB) or circuit breakers with trip alarms (OCBA) can be added.
- Optional normally off load (NOL) energizes only during power outage, is user programmable from 0-15 minutes.
- Seismic anchoring compatible.
- Operating temperature range 32°F (0°C) to 104°F (40°C)2.
- Audible noise less than 50 dB at 3 ft on "A" weighted scale.
- Automatic low battery voltage disconnect.

## application

- The solid state pulse width modulated (PWM) inverter offers enhanced load compatibility.
- It operates incandescent, magnetic and electronic ballast fluorescent, high power factor compact fluorescent and high intensity discharge (HID) luminaries.
- Provides conditioned, uninterruptible power for other types of critical loads.
- Consult factory for non-lighting load applications.

## electronics - input

- Input power factor correcting to 0.97.
- Frequency range 60 Hz,  $\pm 2.5$  Hz.
- Input harmonic current distortion < 5% THD.
- IEEE 587 ANSI C 62.41-1980 surge suppression.

## electronics - output

- Sine wave output.
- Voltage regulation  $\pm 2\%$ .
- Frequency regulation - synchronized to utility, free running 60 Hz,  $\pm 0.5\%$ .
- Output voltage distortion maximum 3% THD with linear load.
- Load power factor capability 0.7 lead to 0.7 lag.
- Overload capability 150% for 1 minute with utility power source present.

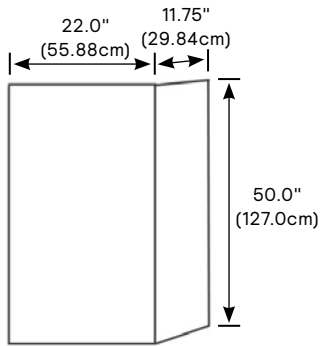
## warranty

- Standard warranty: electronics warranty is 12 months from date of shipment. Battery warranty is 1 year full, 9 years pro-rata from date of shipment.
- Extended warranty available: consult factory for extended warranty and service option.

# CH2 Synthesis Single Phase Uninterruptible Power Supply

1000 VA

## dimensions



## system input/output

| System Rating                       | 1000 VA                 |
|-------------------------------------|-------------------------|
| Input Voltage (V) : Input Current   | 120 : 15.8<br>277 : 7.3 |
| Output Voltage (V) : Output Current | 120 : 8.3<br>277 : 3.6  |
| OCB Pole Spaces Available           |                         |
| Without Trip Alarm                  | 12                      |
| With Trip Alarm                     | 6                       |
| Heat Rejection (btu/hr)             | 648                     |
| Weights (lbs)                       |                         |
| 120 V with 90 min battery           | 352                     |
| 277 V with 90 min battery           | 386                     |

## system one-line diagram

