

# CHLORIDE

by @ignify

## Exit/Emergency

Synthesis CHT series

Single Phase Uninterruptible  
Power Supply, 8.5KVA



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

### Example: CHTGG8.5S0

| CHT  |   | 8.5  |               |                          |   |   |  |   |   |   |  |
|--|---|--|---------------|--------------------------|---|---|--|---|---|---|--|
| Series   | Input Voltage                               | Output Voltage   | Unit Size     | Battery Time             | Nol   | Qty Ckt Breakers  | Breakers On<br>2nd Voltage   | Qty Nol Ckt<br>Breakers   | Nol Voltage                                       | Qty Nol 2nd<br>Voltage  |  |
| CHT - Chloride<br>Synthesis CHT<br>UPS System for<br>Emergency<br>Lighting<br>Applications | G - 120/240 V<br>J - 277 V<br>L - 120/208 V | G - 120/240 V<br>J - 277 V<br>L - 120/208 V<br>Y - 120/277 V | 8.5 - 8.5 kVA | S - 90 min<br>Y - 20 min | 0 - None<br>1 - Yes<br>T - NOL<br>w/<br>TDT | 00X - Hardwire<br>01X - 1 OCB<br>02X - 2 OCB<br>03X - 3 OCB<br>04X - 4 OCB<br><br>20X - 20 OCB<br><br>01A - 1 OCBA<br>02A - 2 OCBA<br>03A - 3 OCBA<br><br>010A - 10 OCBA<br>(maximum pole<br>spaces 20) | 00 - 2nd<br>Voltage<br>Hardwire or No<br>2nd Voltage<br>01<br>02<br>03<br><br>19 | 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>M - 13<br>N - 14<br>O - 15<br>P - 16<br>Q - 17<br>R - 18<br>S - 19<br>T - 20<br>Z - None | 1 - First<br>2 - Second<br>3 - Both<br>0 - No NOL | 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>M - 13<br>N - 14<br>O - 15<br>P - 16<br>Q - 17<br>R - 18<br>S - 19<br>Z - No NOL |  |

#### Footnote

<sup>1</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: 8500

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"/> |

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



# CHT Synthesis Single Phase Uninterruptible Power Supply

8.5 KVA

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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, make before break maintenance by-pass.
- 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.
- LCD readout system status panel.
- Local 25 event logging/display.
- User programmable automatic testing.
- Load integrity testing.
- Fault annunciating audible alarm.
- Current limiting start sequence.
- Optional output circuit breakers (OCB) and circuit breakers with trip alarm (OCBA).
- Optional normally off load (NOL) energizes only during power outage, normally off load with time delay (TDT) also available.
- Seismic anchoring compatible.
- 87% throughput efficiency, 85% emergency efficiency.
- Operating temperature range 32°F (0°C) to 104°F (40°C)1.
- Fault current rating 42 kAIC.
- 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 0.99.
- Frequency range 60 Hz,  $\pm 2.5$  Hz.
- Input harmonic current distortion < 5% THD.
- UL1449, ANSI/IEEE C62.41 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 125% for 10 seconds.

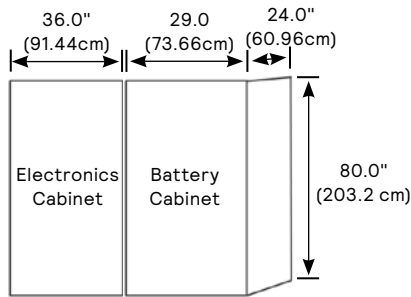
## warranty

- Standard warranty: (requires execution of factory start-up within 120 days of shipment) Chloride will provide parts and on-site labor for the first 12 months following start-up of the product, and parts only for an additional 12 months. If factory start-up is not executed within 120 days of shipment, Chloride will provide a parts warranty for 12 months from the date of shipment.
- Extended warranty available: consult factory for extended warranty and service option.

# CHT Synthesis Single Phase Uninterruptible Power Supply

8.5 KVA

## dimensions



## system input/output

| System Rating (kW/kVA)            | 8.5  |
|-----------------------------------|--|
| Input Volt. (V) : Input Curr. (A) | 120 : N/A<br>120/240 : 50.1<br>277 : 43.3<br>120/208 : 57.7                                  |
| Output Volt. : Output Current*    | 120 : N/A<br>120/240 : 70.8/35.4<br>277 : 30.7<br>120/208 : 70.8/40.9<br>120/277 : 70.8/30.7 |
| OCB Pole Spaces Available         |  |
| Without Trip Alarm                | 20   |
| With Trip Alarm                   | 10   |
| Heat Rejection (btu/hr)           | 4058   |
| Weight (lbs)                      |  |
| Electronics                       | 1000   |
| Empty Battery Cabinet             | 400  |
| 90 Min Battery                    | 1500   |
| 20 Min Battery                    | 480  |

\* Multi-voltage total loads not to exceed system rating.

## system one-line diagram

