

### Exit/Emergency

Synthesis CHT series

Single Phase Uninterruptible Power Supply, 4.2KVA



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Project:	
Location:	
Cat.No:	
Туре:	
Lamps:	Qty:
Notes:	

#### Example: CHTAA4.2S0

CHT			4.2							
<u>Series</u>	<u>Input Voltage</u>	Output Voltage	<u>Unit Size</u>	Battery Time	Nol	<u> Qty Ckt Breakers</u>	<u>Breakers On</u>	<u>Qty Nol Ckt</u>	<u>Nol Voltage</u>	<u>Qty Nol 2nd</u>
CHT - Chloride Synthesis CH UPS System f Emergency Lighting Applications	A – 120 V IT G – 120/240 V for J – 277 V L – 120/208 V	<b>G</b> – 120/240 V <b>J</b> – 277 V	<b>4.2</b> - 4.2 kVA	S - 90 min X - 10 min Y - 20 min	0 - None 1 - Yes T - NOL w/ TDT	00X - Hardwire 01X - 1 OCB 02X - 2 OCB 03X - 3 OCB 04X - 4 OCB	2nd Voltage 00 - 2nd Voltage Hardwire or No 2nd Voltage 01 02 03	Breakers e A - 1 B - 2 C - 3 D - 4 E - 5 F - 6 G - 7 H - 8 I - 9 J - 10 K - 11 L - 12	1 - First 2 - Second 3 - Both 0 - No NOL	Voltage A - 1 B - 2 C - 3 D - 4 E - 5 F - 6 G - 7 H - 8 I - 9 J - 10 K - 11
Footnote <sup>1</sup> Optimum opera Temperatures a						03A - 3 OCBA 010A - 10 OCBA (maximum pole spaces 20)		L - 12 M - 13 N - 14 O - 15 P - 16 Q - 17 R - 18 S - 19 T - 20 Z - None		L - 12 M - 13 N - 14 O - 15 P - 16 Q - 17 R - 18 S - 19 Z - No NOL

#### unit check list

Catalog No:						
VA Rating: 4200						
Battery Type: Sealed Lead Calcium						
Operating Time: 90/20/10 Min.						
Utility Input:VAC, Single Phase						
Output Circuit Breakers:						
Qty:AC Volts: Amps:	Normally Normally Trip Alarm ONOFFYESNO					
Qty:AC Volts: Amps:						
Qty:AC Volts: Amps:	ON OFF YES NO					
Qty:AC Volts: Amps:	ON OFF YES NO					
Remarks:						

## CHT Synthesis Single Phase Uniterruptible Power Supply 4.2 KVA

#### 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.
- LED array system status panel
- 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, ±2.5 Hz.
- Input harmonic current distortion < 5% THD.
- UL1449, ANSI/IEEE C62.41 surge suppression.

#### electronics - output

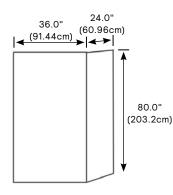
- Sine wave output.
- Voltage regulation ±2%.
- Frequency regulation synchronized to utility , free running 60 Hz ,  $\pm 0.5\%$  .
- Output voltage distortion maximum 3% THD with linear load.
- Load power factor capability 0.7 lead to 0.7 lag.
- Overload capability 125% for 10 seconds.

#### 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 Uniterruptible Power Supply 4.2 KVA

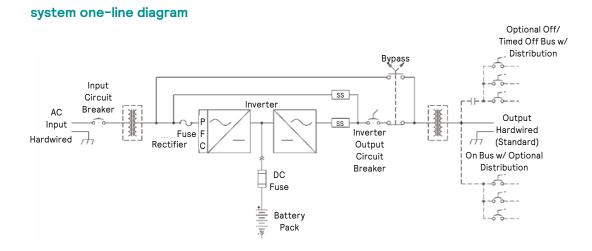
#### dimensions



#### system input/output

System Rating (kW/kVA)	4.2
Input Volt. (V) : Input Curr. (A)	120 : 47.0
	120/240 : 23.5
	277 : 20.3
	120/208 : 27.0
Output Volt. : Output Current*	120 : 35.0
	120/240 : 35/17.5
	277 : 15.2
	120/208 : 35/20.2
	120/277 : 35/15.2
OCB Pole Spaces Available	
Without Trip Alarm	20
With Trip Alarm	10
Heat Rejection (btu/hr)	2005
Weight (Ibs)	
Electronics	840
90 Min Battery	760
20 Min Battery	350
10 Min Battery	230

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



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