



The CHT-U series by Chloride is a high-performance single-phase uninterruptible inverter system designed to meet critical power requirements, offering a power range of 1.5KVA/KW to 16.7KVA/KW. Engineered for reliability, this system is UL924 listed and compatible with all light sources, including LED loads, while providing a standard runtime of 90 minutes and a transfer time of 2ms. Equipped with advanced features and configurable options, the CHT-U series supports multiple communication protocols, making it an ideal solution for a wide range of applications.

Project: \_\_\_\_\_

Location: \_\_\_\_\_

Cat.No: \_\_\_\_\_

Type: \_\_\_\_\_

Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_

Notes: \_\_\_\_\_

#### Ordering guide

Series	Phase	KVA/KW	Voltage Input/Output <sup>1</sup>	Battery Type	Runtime	Output Breakers			
						Output	Voltage	Amp Rating (Distribution Breakers)	Quantity
CHT-U Chloride uninterruptible inverter system for emergency lighting	S Single phase	1 1.5	A 120-120	S Standard (10 years) S15 Extended (15 years) G Long life (20 years)	[Blank] 90 min 120 <sup>2</sup> 120 min	B Normally ON N <sup>3,4</sup> Normally OFF	A 120	10	01-24 <sup>5</sup>
		2 2.25	B 120-120/277				B 208	16	
		3 3.0	C 208-120				C 240	20	
		4 3.75	D 240-120/240				D 277	25	
		5 5.0	E 277-120				Z Other	32	
		6 6.0	F 277-277					40	
		8 8.0	G 277-277/120					50	
		10 10.0	H 208-120/240					63	
		12 12.5							
		16 16.7							

Options	Warranty <sup>12</sup>
<b>A</b> Remote summary alarm panel with one indicator light <b>C</b> Status monitoring contacts <b>F</b> Fast charge <b>I</b> Inverter on dry Form C contacts <b>M</b> Internal maintenance bypass (make before break) <b>S</b> Summary fault Form C contacts <b>T<sup>6</sup></b> Output trip (Supervised) Alarm <b>P<sup>6</sup></b> Remote status panel <b>O</b> Output transfer delay (3 seconds) <b>DT</b> Drip top (NEMA 2) <b>L</b> Load control relay (contact factory for available quantities & review application) <b>V<sup>7</sup></b> Time delay 15 minutes <b>Z<sup>8,9</sup></b> Seismic mounting MBYP - external maintenance bypass <b>ZM</b> Zone monitor (contact factory to review application) <b>EMPB<sup>10,11</sup></b> External maintenance bypass switch	<b>2YW</b> 2-Year warranty includes startup & same day training <b>5YP</b> 5-Year preventative maintenance plan, startup must be included <b>5YW</b> 5-Year extended electronics warranty <b>SMP<sup>13</sup></b> Service monitoring plan
<b>Can only have one of following options:</b> <b>R</b> Remote Meter Panel <b>SEA</b> Serial to Ethernet Adapter (RJ45) <b>BAC</b> BACnet Communications (MSTP) <b>BIP</b> BACnet Communications (IP) <b>MIP</b> Modbus TCP/IP <b>MOD</b> Modbus RTU	

- Other voltages available. Contact factory.
- 120 min run time not available on 16.7KVA unit.
- Normally off loads cannot exceed 20% of total KVA rating with any combination of HID loads.
- 15 minute retransfer time delay of Normally Off circuit after return of utility.
- Maximum output breakers available: 12 unsupervised (1-pole), 8 supervised (1-pole) for 1.5KVA-5KVA; 24 unsupervised (1-pole), 18 supervised (1-pole) for 6KVA-16.7KVA; Break-ers provided are 20 Amps unless specified otherwise. A 2-pole breaker occupies 2 positions.
- Requires option C.
- Time delay of normally off circuit will stay activated 15 minutes after return of utility.
- Anchorage based on calculations.
- Seismic Mounting increases footprint from that noted above. Contact factory for detailed seismic mounting drawing.
- Maintenance bypass switch is a "make before break".
- Cannot purchase External Maintenance Bypass Switch with Branch Circuit Breaker options.
- One year warranty is standard.
- Requires Factory Start-up options. This program will provide monitoring of the lighting inverter system by our factory service department. All monthly and yearly system tests will be reviewed by our factory service department for early warning signs of any system malfunction. Any system alarms and monthly/yearly test results will automatically be e-mailed to our service department where corrective action can be taken and while under warranty, if necessary, a factory authorized service technician will be scheduled to complete any necessary repairs. This monitoring program will require a dedicated telephone line.

#### Product Highlights

- Single Phase Inverter
- 1.5 KVA/KW to 16.7 kVwA/KW
- Uninterruptible
- 2ms Transfer Time
- For use with LED, HID, motor loads and all lighting loads
- UL924 Listed

#### Application Areas

- Office
- Education
- Healthcare
- Hospitality
- Retail
- Industrial
- Manufacturing

# CHT-U Single Phase Interruptible Inverter

1.5KVA/KW to 16.7KVA/KW

## Specifications

- Input 120 or 277VAC 1 phase 2 wire plus ground
- Output 120 or 277VAC 1 phase 2 wire plus ground
- Output load power factor .5 lag to .5 lead
- Compatible with all LED drivers
- Forced air cooling only during emergency operation; no filters required
- Output distortion less than 3% THD for linear loads
- Generator compatibility
- Custom voltages available
- 90 minute runtime standard; 120 min optional (other runtimes available upon request)

## Product features

- 98% efficient
- PWM/IGBT technology
- Micro-processor control
- User programmable with password protection
- UL 924 listed
- Automatic event, test and alarm log
- RS232 communications port
- Input circuit breaker
- 2ms transfer time
- Low audible noise
- Space-saving, single cabinet design

## Optional features

- BACnet (MS/TP) or (IP)
- MODbus (TCP/IP) or (RTU)
- Internal maintenance bypass
- Summary Form C contacts
- Fast charge
- Remote meter panel
- Output circuit breakers
- Extended factory warranty
- Factory startup and training
- Normally Off output
- Output trip alarms
- Remote summary alarm panel

\*For complete Options list see Ordering Information table in page 1

## Codes and standards

- UL 924 listed

## Specifications table

Electronics Module									Batteries 90 Minutes @ Full Load				
Series	Power Rating (KVA/KW)	Efficiency (%)	Audible Noise (db)	Heat Loss (BTU)	Cabinet Dimensions (90 minutes run)				90 Minutes Batteries (lbs/kg)	No. of Batteries	Voltage (VDC)	Current (amps)	Total System Weight (lbs/kg)
					Width (in/cm)	Height (in/cm)	Depth (in/cm)	Weight (lbs/kg)					
CHT-U-S-1	1.5	98	45	102	30/77	47/119	25/64	215/98	296/135	4	48	39	511/230
CHT-U-S-2	2.25	98	45	153	30/77	47/119	25/64	230/105	444/200	6	72	38	697/306
CHT-U-S-3	3.0	98	45	204	30/77	47/119	25/64	235/107	592/266	8	96	38	827/372
CHT-U-S-4	3.75	98	45	255	30/77	47/119	25/64	240/109	740/330	10	120	37	980/441
CHT-U-S-5	5.0	98	45	340	30/77	47/119	25/64	280/128	888/400	12	144	40	1168/525
CHT-U-S-6	6.0	98	45	408	48/122	76/193	25/64	605/272	1110/500	15	180	40	1715/772
CHT-U-S-8	8.0	98	45	544	48/122	76/193	25/64	640/288	1480/666	20	240	39	2120/954
CHT-U-S-10	10.0	98	45	680	48/122	76/193	25/64	785/353	1776/800	24	144	82	2561/1153
CHT-U-S-12	12.5	98	45	860	48/122	76/193	25/64	805/362	2220/999	30	180	82	3025/1361
CHT-U-S-16	16.7	98	45	1135	48/122	76/193	25/64	885/398	2960/1332	40	240	80	3845/1730

# CHT-U Single Phase Interruptible Inverter

1.5KVA/KW to 16.7KVA/KW

## Dimensions

Models 1.5KVA to 5.0KVA



Models 6.0KVA to 16.7KVA

