



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

Philips Chloride CH3 series is a three phase centralized inverter UPS system that is a reliable and a cost effective way to meet NFPA code requirements with an output rating ranging from 10kW to 33kW. It is compatible with all luminaires and has a peak overload capability of 1700% to accommodate inrush current from LED luminaires. The CH3 Series inverters are standard with microprocessor based self-diagnostic/self-test electronics that perform automatic monthly and annual tests in according with NFPA 101 equipment, and the results are logged with a date and time stamp.

Ordering guide Example: CH3 LL 10 S 0 0 0

Product	Input voltage	Output voltage	Unit size	Battery	Monitor	Output distribution	Relay interface options
СНЗ							
CH3 Three-phase uninterruptible pwer supply	L 208/120V N 480/277V	L 208/120V N 480/277V	10 10kW 13 13kW 15 15kW 17 17kW 20 20kW 24 24kW 26 26kW 30 30kW 32 32kW 33 33kW	S 90 min N OTHER  Consult factory for alternate battery run times	LCD color touchscreen      LCD color touchscreen     TCP/IP or MODBUS TCP      LCD color touchscreen     + MODBUS RS485      LCD color touchscreen +     BACnet/IP      LCD color touchscreen +     BACnet/IP  A LCD color touchscreen +     BACnet MS/TP	Integral main     CB only      Distribution     cabinet     Distribution     cabinet w/normally     Off bus	None provided     Output alarm relay contacts, and Off bus "Command On" and REPO inputs     Off bus "Command On" and REPO inputs only

Application	Qty 1P	Qty 2P
Normally On		
Normally Off		
On + alarm		
Off + alarm		

Qty 3P

Max positions available 36 (12 per phase). Max positions available with alarm 24 (8 per phase).

Note: Consult factory for output circuit breaker options provided within the distribution cabinet.



<sup>&</sup>quot;Command On" allows a remote alarm contact signal to energize the Normally Off bus which will illuminate the normally off emergency lights.

# **CH3** Three Phase Uniterruptible Power Supply

# 10-33 kW

#### Codes and standards

· UL 924, NFPA 101, NFPA 111, NEC

#### Construction

- Free standing, NEMA 1 enclosure with hinged door and powder coat finish with top access for conduit entries.
- 208Y/120 VAC or 480Y/277 VAC,
   3 phase, 4 wire plus ground input and output. Voltage must be specified when ordering.
- · 90% typical efficiency.
- Operating temperature range 68°F (20°C) to 95°F (35°C).
   Increases or decreases in temperature will affect battery performance. Optimum battery performance realized at 77°F (25°C). Batteries are rated at 100% capacity at 77°F (25°C).
- Internal maintenance bypass, main input and output breakers and battery cabinet disconnect breaker are standard.
- Double conversion, no interruption with a standard backup time of 90 minutes.
- Output distribution circuit breakers optional.
- · Normally Off bus optional.
- · Factory startup service included.

# Application

 Operates incandescent, fluorescent, LED and HID type luminaires.  Consult factory for compatibility and performance with nonlighting and switched lighting loads.

#### **Electronics - inverter**

- Transient response ±10% for 1 cycle, then ±3% for 2-3 cycles maximum (100% load step).
- 3:1 crest factor capability up to 75% of rated load, and 2.5:1 maximum at 100% load.
- Inverter output distortion < 3% THD (linear loads).
- Output voltage regulation ±3% of nominal at full load.
- · Frequency: 60 Hz ± 0.5 Hz
- Load power factor capability is 0.7 lagging to 0.7 leading.
- Automatic low battery voltage disconnect (LVD).

#### **Electronics - rectifier**

- Input voltage range +10%, -15% of nominal.
- Input current THD < 10% (at full load)</li>
- Voltage regulation ±1% maximum for input voltage and DC variations.
- Ripple voltage < 1% rms float voltage.
- Three stage temperature compensated charger.

# Electronics - static transfer switch

 Overload rating 110% for 2 minutes, 150% for 10 seconds, 400% for 4 cycles (without use of static bypass).

#### Metering/controls

 LCD color touch screen display allows user access to all system parameters. View real time data and alarm history. Logs up to 75 events, offers password protection.

#### **Communication options**

- Available BACnet/IP or BACnet MS/TP, Ethernet TCP/IP, MODBUS TCP or MODBUS RS485 network with specific IP address for Ethernet connected systems.
- Provides remote monitoring of the inverter status, battery test results, alarm conditions and electrical measurements via a web browser, without the need for additional software
- Remote notification of alarms and status are available via SNMP, e-mail and network broadcast messaging, or via the user's building management system.

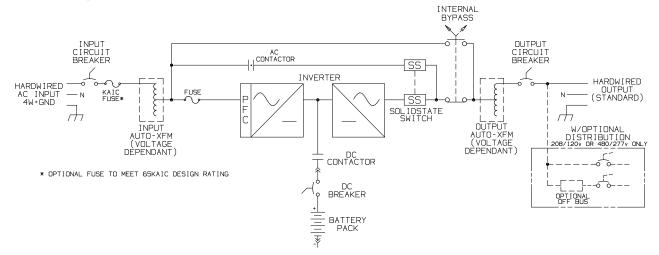
### **Battery**

 Valve regulated maintenance free, sealed lead calcium battery with front access terminals for easy installation.

#### Warranty

- If factory start up is conducted within 120 days of shipment,
   Philips Chloride will warrant parts for 24 months and on-site labor for the first 12 months from date of factory start up.
- If factory start up is not conducted within 120 days of shipment, Philips Chloride warrants parts for 24 months from date of shipment.
- Battery warranty is 1 year full / 9 years pro-rated.

# One-line diagram



# Three Phase Uniterruptible Power Supply

# 10-33 kW

# System input/output

Rating	Voltage In/Out	Max Input Amps <sup>1</sup>	Max Output Amps per phase <sup>2</sup>	BTU / Hour	Weight (Lbs)	Cabinet Configuration
10	208/120	34.0	27.8	3410	2828	А
10	480/277	15.5	12.0	3410	3120	В
13	208/120	43.0	36.1	4433	3200	А
13	480/277	19.3	15.6	4433	3642	В
15	208/120	54.3	41.7	7161	4634	В
15	480/277	22.0	18.1	5115	3642	В
17	208/120	60.7	47.2	8116	4872	В
17	480/277	25.1	20.4	5797	4356	В
20	208/120	72.0	55.5	9548	5502	С
20	480/277	29.3	24.1	6820	4356	В
24	208/120	85.5	66.6	11458	5940	С
24	480/277	35.3	28.9	8184	5502	С
26	208/120	92.5	72.2	12412	6267	С
26	480/277	38.2	31.2	8866	5508	С
30	208/120	104.4	83.3	14322	6659	С
30	480/277	43.1	36.1	10230	5900	С
32	208/120	111.4	88.8	15277	6959	С
32	480/277	45.9	38.5	10912	6200	С
33	208/120	115.1	91.6	15754	7259	С
33	480/277	47.3	39.7	11253	6200	С

<sup>&</sup>lt;sup>1</sup> Continuous duty

#### **Dimensions**



### Cabinet configuration A

Width\* - 52" Electronics cabinet – 29" Battery cabinet - 23"

Height – 77"

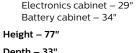
Depth - 33"



# Cabinet configuration B

Width\* - 63" Electronics cabinet – 29"

Depth - 33"





# Cabinet configuration C

Width\* - 70" Electronics cabinet – 29" Battery cabinet - 41"

Height - 77" Depth - 33"

\*Adding output circuit breaker (OCB) options increases total width by 14"



<sup>&</sup>lt;sup>2</sup> Consult factory for current ratings for voltage configurations not shown above.