

# H681X-5A SERIES

Split-Core Current Transformers, 5A Output



H681x-5A  
(subset of models  
shown)

H681x-5A split-core current transformers (CTs) provide secondary amperage proportional to the primary (sensed) current. For use with power meters, data loggers, chart recorders, and other instruments, the H681x Series 5 Amp CTs provide a cost-effective means to transform electrical service amperages to a 0 to 5 Amp level compatible with monitoring equipment.

## SPECIFICATIONS

Split-core

### INPUTS

Frequency Range	50/60 Hz
Leads	6 ft (1.8 m)

### ACCURACY

Accuracy	±1% of reading from 5% to 100% of rated current, specified with the primary conductor(s) centered in the CT window.
----------	---

### OUTPUTS

Output at Rated Current	5 A
-------------------------	-----

### MECHANICAL

Insulation	600 Vac
------------	---------

### ENVIRONMENTAL

Operating Temp Range	2400A models only: -15 to 50 °C (5 to 122 °F); All other models: -15 to 60 °C (5 to 140 °F)
Storage Temp Range	-40 to 70 °C (-40 to 158 °F)
Humidity Range	0 to 95% non-condensing
Altitude of Operation	3 km max.
Mounting Location	Not suitable for wet locations. For indoor use only.

### WARRANTY

Limited Warranty	5 years
------------------	---------

### AGENCY APPROVALS

Agency Approvals	UL61010-1, IEC 61010-1, EN 61010-1
Installation Category	Category III, Pollution Degree 2



## Easy installation

Unique hinge design

## UL Recognized

UL Recognized, including UL2808

## 5 Amps standard

5 Amp standard output...  
compatible with existing systems

## APPLICATIONS

- Data logging
- Recording
- Power monitoring
- Energy management
- Alternative energy monitoring
- Cost allocation

UL2808

### INPUTS

Frequency Range	50/60 Hz
Leads	16 AWG, 8 ft (2.4 m), 20 ft (6 m)

### ACCURACY

Accuracy	These CTs meet or exceed accuracy requirements specified in IEC 61869-2, Table 201, Class 1 (not applicable for small aperture CTs, 200-300 A).
----------	---

### OUTPUTS

Output at Rated Current	5 A
-------------------------	-----

### MECHANICAL

Insulation	600 Vac
------------	---------

### ENVIRONMENTAL

Operating Temp Range	-15 to 60 °C (5 to 140 °F)
Storage Temp Range	-40 to 70 °C (-40 to 158 °F)
Humidity Range	0 to 95% non-condensing
Altitude of Operation	2 km max.
Mounting Location	Not suitable for wet locations. For indoor use only.

### WARRANTY

Limited Warranty	5 years
------------------	---------

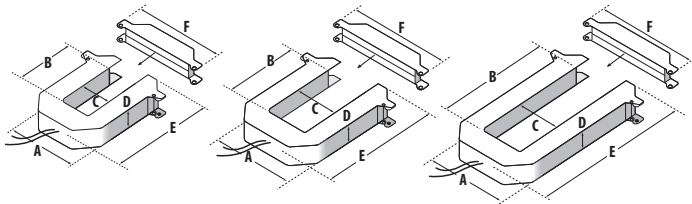
### AGENCY APPROVALS

Agency Approvals	UL2808
Installation Category	Category III, Pollution Degree 2



**DIMENSIONAL DRAWINGS**

Split-Core



**H6810/Small**  
200-300 Amp

- A = 3.8" (96 mm)
- B = 1.2" (31 mm)
- C = 1.3" (32 mm)
- D = 1.2" (31 mm)
- E = 4.0" (100 mm)
- F = 4.8" (121 mm)

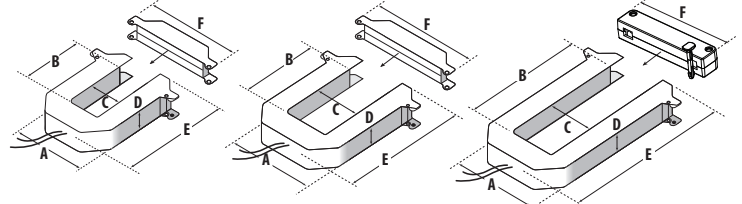
**H6811/Medium**  
400-800 Amp

- A = 4.9" (125 mm)
- B = 2.9" (73 mm)
- C = 2.5" (62 mm)
- D = 1.2" (31 mm)
- E = 5.2" (132 mm)
- F = 6.0" (152 mm)

**H6812/Large**  
800-2400 Amp

- A = 4.9" (125 mm)
- B = 5.5" (139 mm)
- C = 2.5" (62 mm)
- D = 1.2" (31 mm)
- E = 7.9" (201 mm)
- F = 6.0" (152 mm)

UL2808



**H6810/Small UL2808**  
200-400 Amp

- A = 3.23" (82 mm)
- B = 1.4" (36 mm)
- C = 1.4" (36 mm)
- D = 1.12" (28 mm)
- E = 3.25" (83 mm)
- F = 4.12" (105 mm)

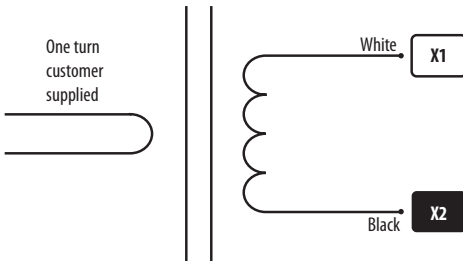
**H6811/Medium UL2808**  
600-800 Amp

- A = 4.95" (126 mm)
- B = 2.9" (74 mm)
- C = 2.46" (63 mm)
- D = 1.2" (31 mm)
- E = 5.36" (136 mm)
- F = 5.83" (148 mm)

**H6812/Large UL2808**  
1000-2400 Amp

- A = 4.91" (125 mm)
- B = 5.73" (146 mm)
- C = 2.47" (63 mm)
- D = 1.16" (30 mm)
- E = 8.12" (206 mm)
- F = 4.91" (125 mm)

**WIRING EXAMPLE**



**ORDERING INFORMATION**

MODEL	DESCRIPTION
H6810-200A-5A	Split-core CT, Small, 200A:5A
H6810-300A-5A	Split-core CT, Small, 300A:5A
H6811-400A-5A	Split-core CT, Medium, 400A:5A
H6811-600A-5A	Split-core CT, Medium, 600A:5A
H6811-800A-5A	Split-core CT, Medium, 800A:5A
H6812-800A-5A	Split-core CT, Medium, 800A:5A
H6812-1000A-5A	Split-core CT, Large, 10 00A:5A
H6812-1200A-5A	Split-core CT, Large, 1200A:5A
H6812-1600A-5A	Split-core CT, Large, 1600A:5A
H6812-2000A-5A	Split-core CT, Large, 2000A:5A
H6812-2400A-5A	Split-core CT, Large, 2400A:5A
H6810-200A-5AU	Split core CT, Small, 5A, 200A UL2808
H6810-300A-5AU	Split core CT, Small, 5A, 300A UL2808
H6810-400A-5AU	Split core CT, 5A, Small, 400A UL2808
H6811-600A-5AU	Split core CT, Medium, 5A, 600A UL2808
H6811-800A-5AU	Split core CT, Medium, 5A, 800A UL2808
H6812-800A-5AU	Split core CT, Large, 5A, 800A UL2808
H6812-1000A-5AU	Split core CT, Large, 5A, 1000A UL2808
H6812-1200A-5AU	Split core CT, Large, 5A, 1200A UL2808
H6812-1600A-5AU	Split core CT, Large, 5A, 1600A UL2808
H6812-2000A-5AU	Split core CT, Large, 5A, 2000A UL2808
H6812-2400A-5AU	Split core CT, Large, 5A, 2400A UL2808

Note: Burden rating capacity (VA) available upon request.

