

# 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);<br>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 approved

UL2808 Series is UL Listed, others UL Recognized

## 5 Amps standard

5 Amp standard output...  
compatible with existing systems

## APPLICATIONS

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

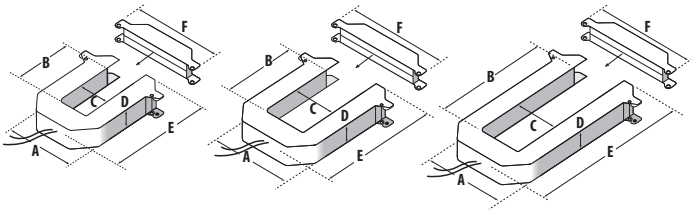
UL2808

| 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)

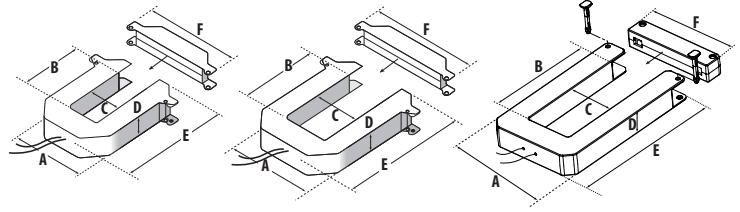
**H6811/Medium**  
400-800 Amp

- 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)

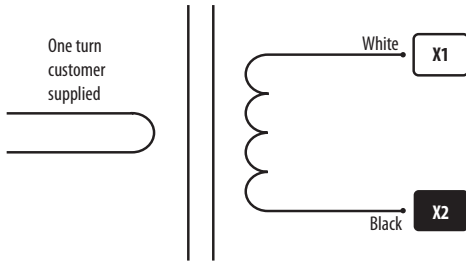
**H6811/Medium UL2808**  
600-800 Amp

- 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.