

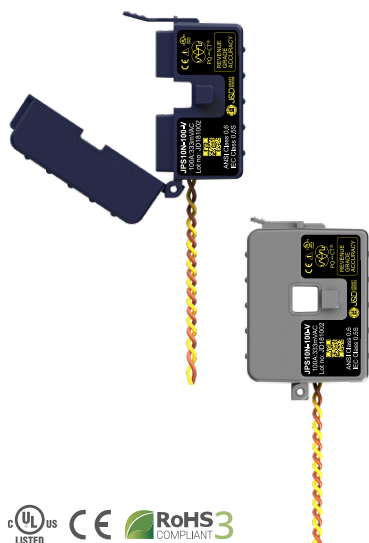
JPS10N-333mV SERIES

Designed for quick and easy installation, JPS series of split core current transformer support both Power Quality measuring and Revenue Grade metering.

Ideal for use in either new construction or retrofits, the split core design allows JPS Series CT to be opened and placed around the power cable, securely locked noticed by A SINGLE CLICK SOUND, thus speeding up installation time. Enhanced durability prevents effect of vibration or shock, considering characteristics of opening/closing hinges.

Therefore, the JPS series current transformers can measure the current flowing through the line with Revenue grade accuracy.

Unique design listed under UL 2808, UL/EN 61010-1 allows for field installation of JPS series in manufactured subpanels and electrical cabinets while maintaining the UL rating and manufacturer warranty.



Advantages

- IEEE/ANSI C57.13, Class 0.3/0.6 accuracy
- IEC 61869-2 Class 0.2S/0.5S accuracy
- Accessories options for installation (Terminal, plug-in, RJ12 port)

Application

- ANSI C12.20 of class 0.5
- IEC 62053-22 of class 0.5S
- IEC 61000-4-30 A ED3 for Power Quality Meter

Standards

- UL Listed UL2808 (XOBA) : Pollution Degree: 3 CAT IV, 600 Vac
- UL/EN61010-1(PICQ) : Pollution Degree: 3 CAT IV, 600 Vac

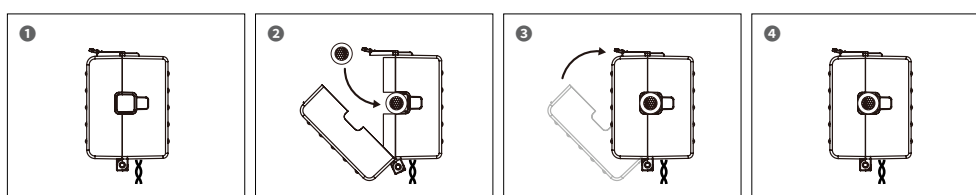


Link

Model	Rated Amps	Output	Accuracy	Internal Burden (Ohms)
JPS10N-005-333mV	5A	0.3333 Vac	0.5%	252
JPS10N-015-333mV	15A	0.3333 Vac	0.5%	252
JPS10N-020-333mV	20A	0.3333 Vac	0.5%	252
JPS10N-030-333mV	30A	0.3333 Vac	0.5%	252
JPS10N-050-333mV	50A	0.3333 Vac	0.5%	252
JPS10N-070-333mV	70A	0.3333 Vac	0.5%	252
JPS10N-100-333mV	100A	0.3333 Vac	0.5%	13

Note: the burden resistor is built into the JPS10N-333mV SERIES.

How to Use



Please refer to "Split-core Current Transformer Installation Guide" for further details.

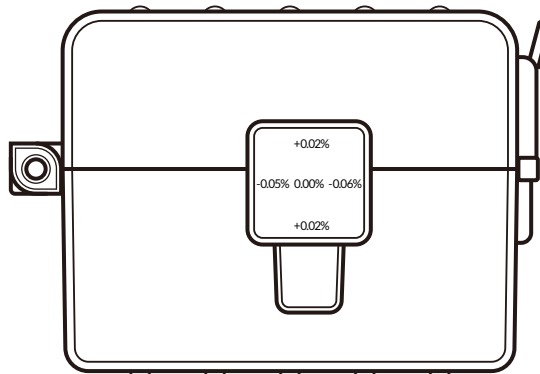
1. Specifications

- Accuracy : Class 0.5
- System Voltage : 720 V (0.72 kV)
- Overload Withstand : 1.2 times rated current continuously
- Compliant with : IEC/EN 61869-2 & IEEE/ANSI C57.13
- Operating Temperature Range : -40°C to 70°C
- Relative Humidity : 0 to 90% non-condensing
- Test Voltage : 3 kV for 1 minute
- Frequency Range : 50/60 Hz
- Protection Level : 3.0V0-P
- Insulation Category : CAT III 1000 Vac, CAT IV 600 Vac

1.1 Accuracy

- Ratio Error :
Accuracy 0.5% conforms to IEC 61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1% to 120% of In
- Phase Angle :
50/60 Hz - 0.0 to 2.0 degrees leading from 1% to 120% of rated current

Position Sensitivity



Shock and Air Gap Test

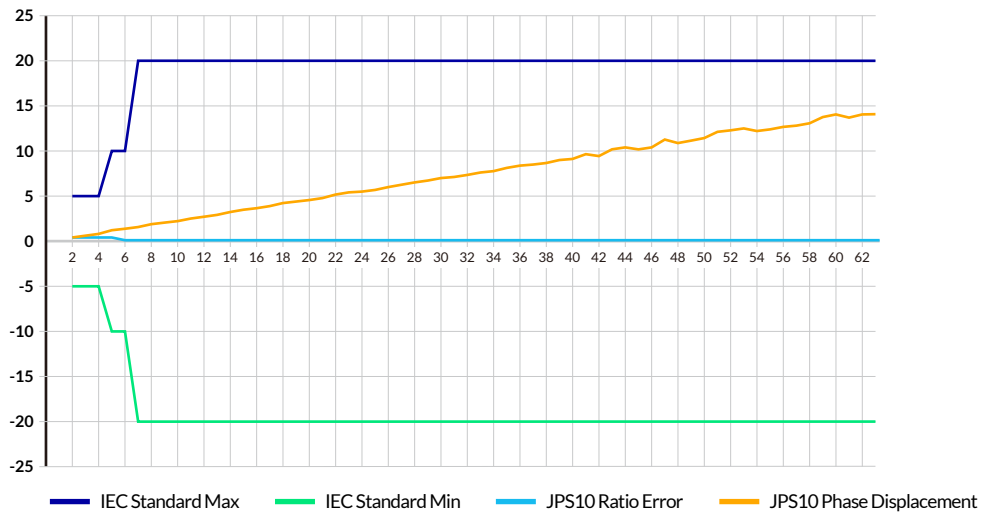
- Shock and Vibration Test Report(JPS10)

100A (1Ω)		➔	100A (1Ω)	
Phase error(°)	Linearity Error(%)		Phase error(°)	Linearity Error(%)
0.21	-0.15	0.21	-0.17	
0.23	-0.16	0.22	-0.18	

- Core Air Gap Test Report(JPS10)

100A (1Ω)		➔	100A (1Ω)	
Air gap : 2microns			Air gap : 2.5microns	
Phase error(°)	Linearity Error(%)	Phase error(°)	Linearity Error(%)	
0.21	-0.15	0.21	-0.17	

Harmonic Graph



1.2 Regulatory

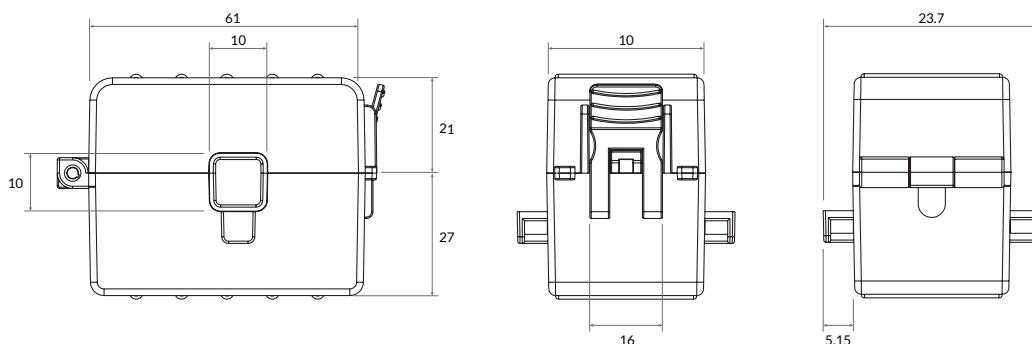
- CE
- UL Listed UL2808 (XOBA) : Pollution Degree: 3 CAT IV, 600 Vac
- UL/EN61010-1(PICQ) : Pollution Degree: 3 CAT IV, 600 Vac
- RoHs Compliant

1.3 Environmental

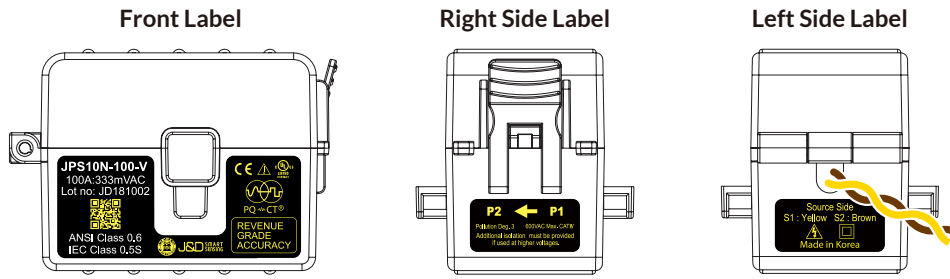
- **Operating Temperature :** -40°C to 70°C (-40°F to +158°F)
- **Operating Humidity :** Non-condensing, 0 to 95% relative humidity(RH)
- **Operating Altitude :** Up to 3000 m (9842 feet)
- **Pollution Degree :** 3 (harsh environment)
- **Indoor Use :** Suitable for indoor use
- **Outdoor Use :** Suitable for outdoor use when mounted in a NEMA 3R or 4 (IP 66) rated enclosure, provided the ambient temperature will not exceed 55°C (131°F)

1.4 Mechanical

- **Width :** 61
- **Height :** 48
- **Thickness :** 23.7
- **Opening :** 10
- **Weight :**
- **Core Nickel Core :** high permeability ferrite



1.5 Labels

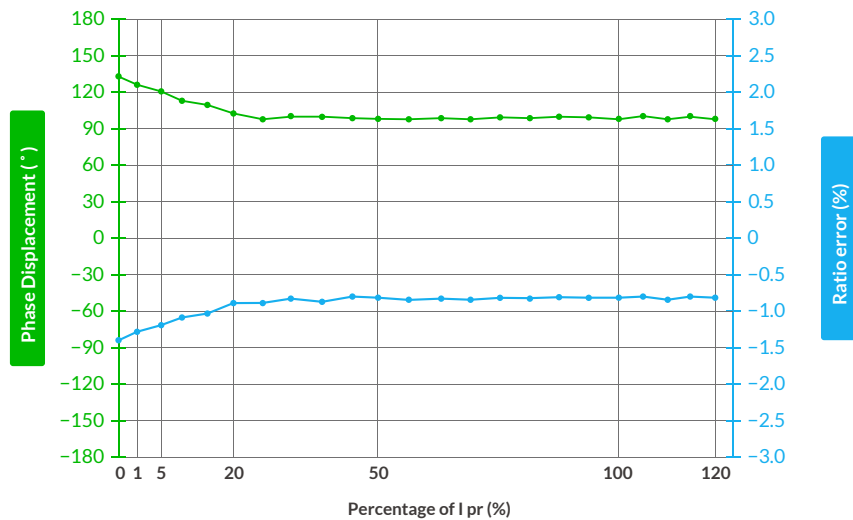


- **QR code** : <Model> ; <SerialNum> ; Scan QR code for Instruction Manual
- **Orientation** : Mount the CT referring to the right side label attached(P1->P2).

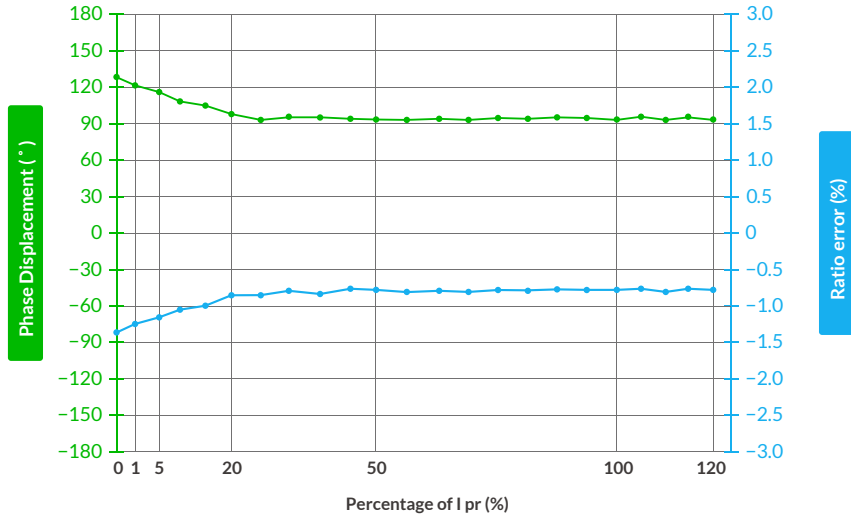
2. Typical Accuracy

- In the following graphs, a positive phase angle error indicates that the output of the CT leads the primary current.
- Graphs show typical performance at 25°C, 60 Hz
- Performance Graphs - The standard CT meets ANSI/IEEE C57.13 class 0.6 standard & IEC 61869-2 standard class 0.5

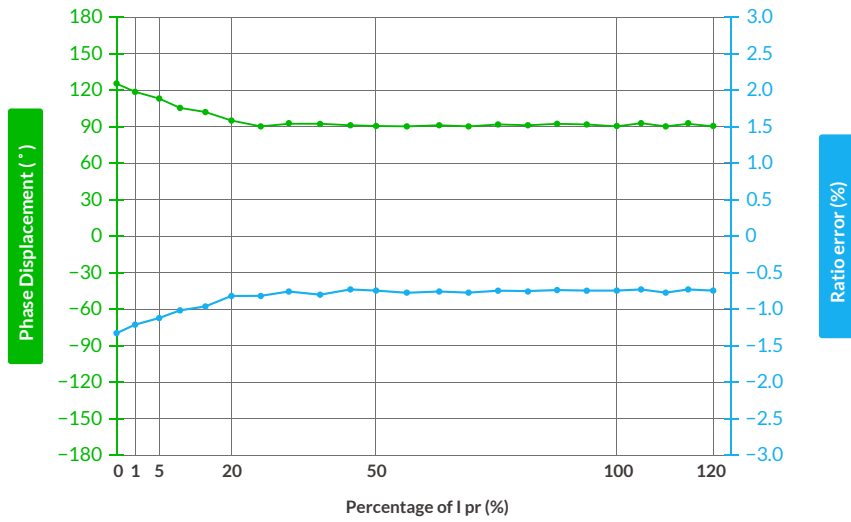
2.1 JPS10N-005-333mV



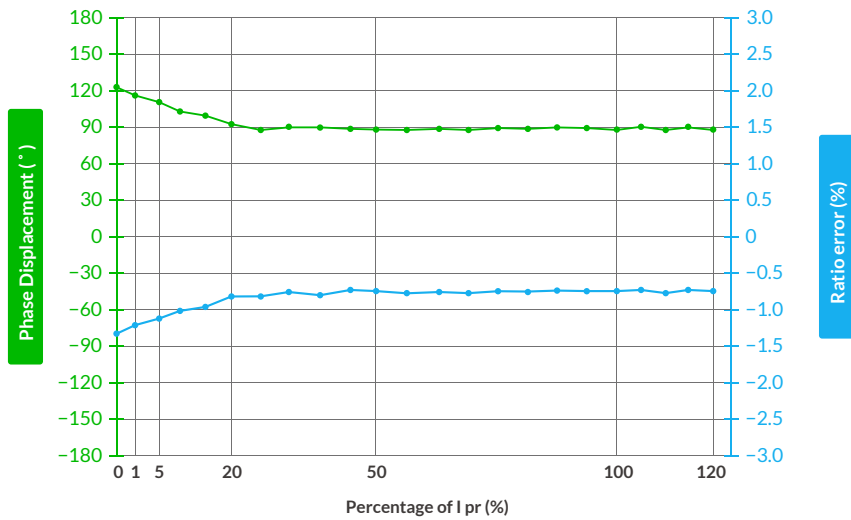
2.2 JPS10N-015-333mV



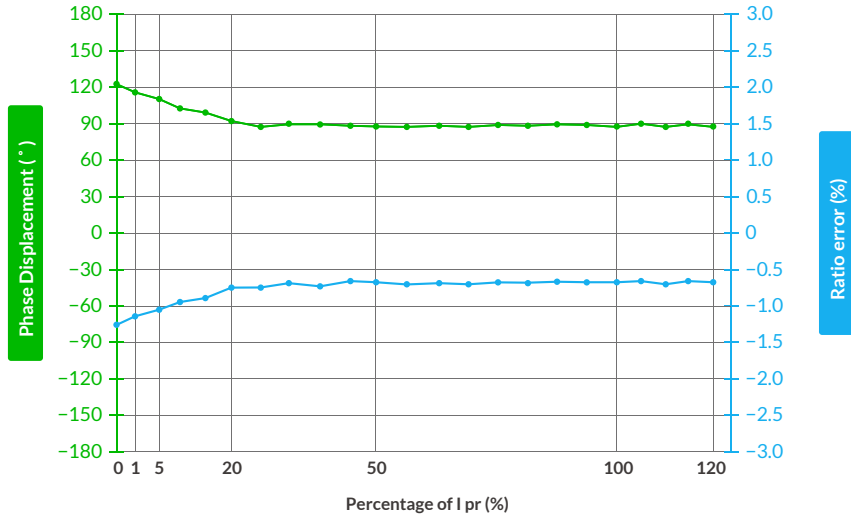
2.3 JPS10N-020-333mV



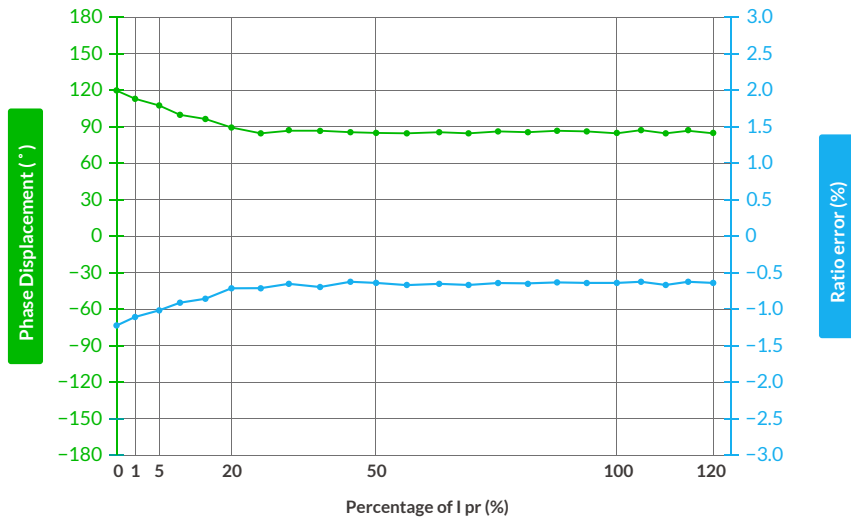
2.4 JPS10N-030-333mV



2.5 JPS10N-050-333mV



2.6 JPS10N-070-333mV



2.7 JPS10N-100-333mV

