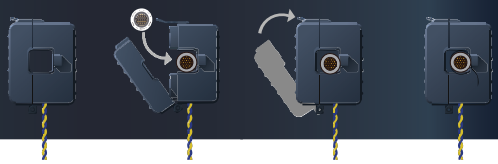
REVENUE-GRADE PQ CT®

SPLIT-CORE CTs



The JPSXXX-XXX-X series revenue-grade, split-core current transformers offer the high accuracy and low phase shift, and the easy two-handed opening and closing, with a safe output values of 100, 250, 333, 500, 1000mVac of voltage output and 50, 80, 100mA, 1A, 5Aac of current output.
The JPSXXX-XXX-X series fulfill the standards, IEEE C57.13 Class 0.3 & 0.6 accuracy and IEC 61869 Class 0.2S & 0.5S accuracy.
Designed specifically for Revenue grade energy and power quality meters, the JPSXXX-XXX-X series is available in four window opening sizes of 10mm / 20mm / 33mm / 52mm, with the current measurements 5A to 1,500A. All models are available in standard and revenue-grade accuracies and offer a wide range of reading from 1% to 120% of primary rated current, wider than other standard current transformers.
The JPSXXX-XXX-X series revenue-grade split core CTs are optimized for Renewable energy power monitoring, Distribution circuit metering, and Power quality metering. They have a hinged opening mechanism for easy installation.

◆ Applications

- Power Metering.
- Sub-metering for Building; Energy efficiency monitoring, consumption analysis, and cost allocation.
- Power Quality Monitoring for Distribution System Equipment.
- Condition Monitoring for Conveyers, Pumps, etc.
- Hybrid Inverter for Home Energy Storage.
- Distributed Measurement Systems.

◆ Features

- PC spring, secure locking hinge, one-touch structure make easy to install to the existent equipments such as a power distribution boards.
- Isolated plastic case recognized according to UL94-V0
- N type (Nickel core)
- F type (Ferrite core)
- Lead wire: Yellow / Brown

◆ Benefits

- Small-size, light-weight
- Simple Installation
- Over-Voltage protection circuit is installed.

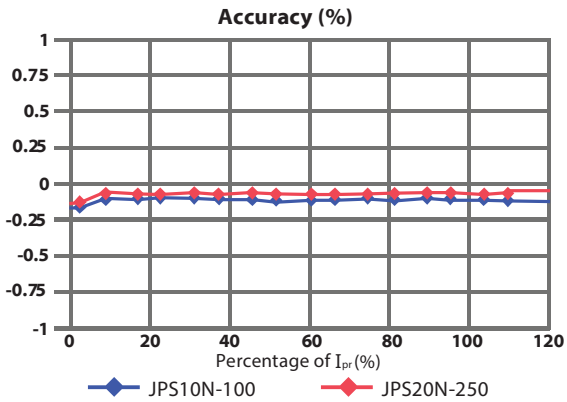
◆ Specifications

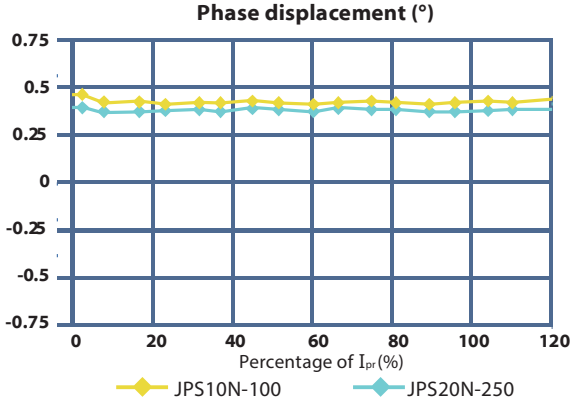
	JPS10X-XXX-X	JPS20X-XXX-X	JPS33X-XXX-X	JPS52X-XXX-X
Accuracy	0.5S	0.5S	0.2S, 0.5S	0.2S, 0.5S
Rated Amps	5, 20, 50, 100	20, 50, 100, 200, 250	250, 400, 600	400, 600, 800, 1000, 1200
Optional Rated Amps	15, 30, 70	5, 15, 30, 70, 125, 150	300, 500	500, 1600
Input Current	AC current, sine wave, 50/60Hz (specify)			
Output Voltage	100, 250, 333, 500, 1000mVac			
Output Current	40, 50, 80, 100 mAac			
IEC Accuracy Class	IEC 61869-2 Class 0.5S	IEC 61869-2 Class 0.5S	IEC 61869-2 Class 0.5S, 0.2S	IEC 61869-2 Class 0.5S, 0.2S
US Accuracy Class	IEEE/ANSI C57.13, Class 0.6	IEEE/ANSI C57.13, Class 0.6	IEEE/ANSI C57.13, Class 0.6, 0.3	IEEE/ANSI C57.13, Class 0.6, 0.3
Standard Lead Length	8 ft (2.4m) 18 AWG (Shielded Cable option)			
Bandwidth	40Hz to 400Hz standard			
Insulation Category	600VACrms. CATⅣ per 61010-1			
Operating Temperature	-40°C to 80°C			
Altitude	Up to 3000 meters, Pollution Degree 3, Humidity up to 95% (non-condensing)			
Construction	Molded cases 120°C UL recognized plastic			

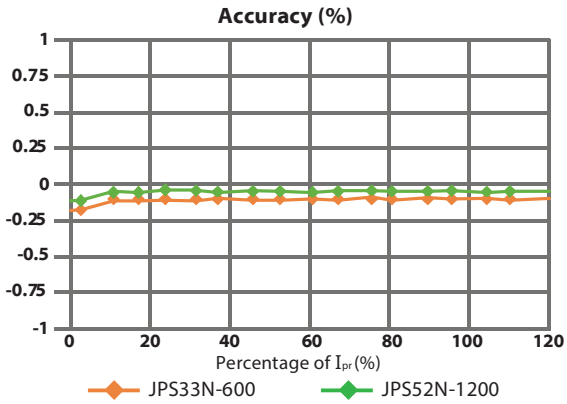
◆ Accuracy class 0.2S & 0.5S according to IEC 61869-2

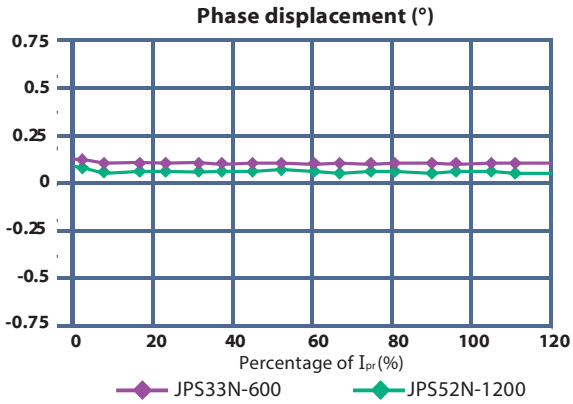
Accuracy Class	±Percentage current(ratio) error at percentage of rated current shown below					±Phase displacement at percentage of rated current shown below				
	1%	5%	20%	100%	120%	1%	5%	20%	100%	120%
0.2S	0.75	0.35	0.2	0.2	0.2	30	15	10	10	10
0.5S	1.5	0.75	0.5	0.5	0.5	90	45	30	30	30

◆ Typical performance characteristics (F(I)[%]&f[°]@25°C/0.05VA@50Hz/60Hz)



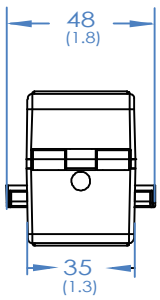


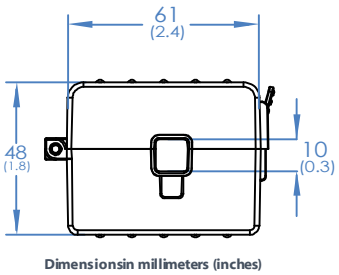




◆ Dimensions

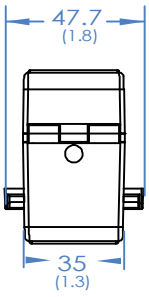
JPS 10

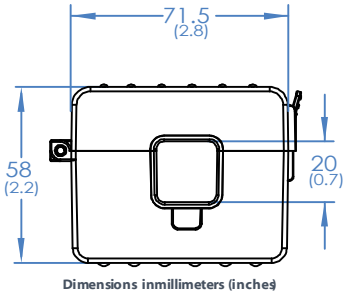




Dimensionsin millimeters (inches)

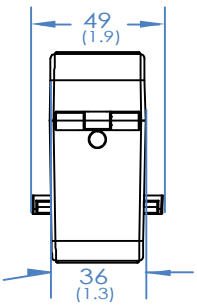
JPS 20

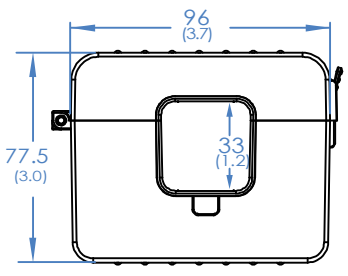




Dimensions inmillimeters (inches)

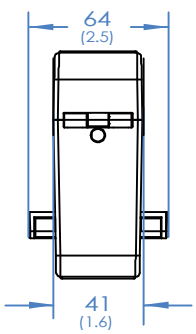
JPS 33

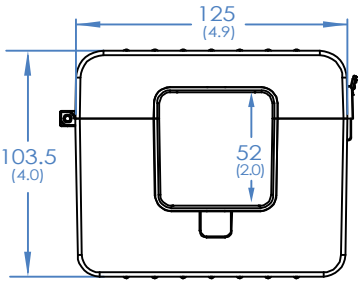




Dimensionsin millimeters (inches)

JPS 52





Dimensions inmillimeters (inches)