SINOMAGS
希 磁 科 技

# CURRENT SENSOR

## Application

## New Energy

## 新能源应用

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SINOMAGS 希磁科技

*Founded*

# 2013

***1200*** employees, ***200*** R&D staff

全球员工：1200、技术人员：200+

# 1200/200+

***xMR*** device ~ ***500*** Mpcs/year

xMR die ~5 亿颗 / 年

# 500 Mpcs

***Y2022***, ***current sensor*** production exceeds ***100*** Mpcs

2022年，电流传感器产出突破 1 亿颗

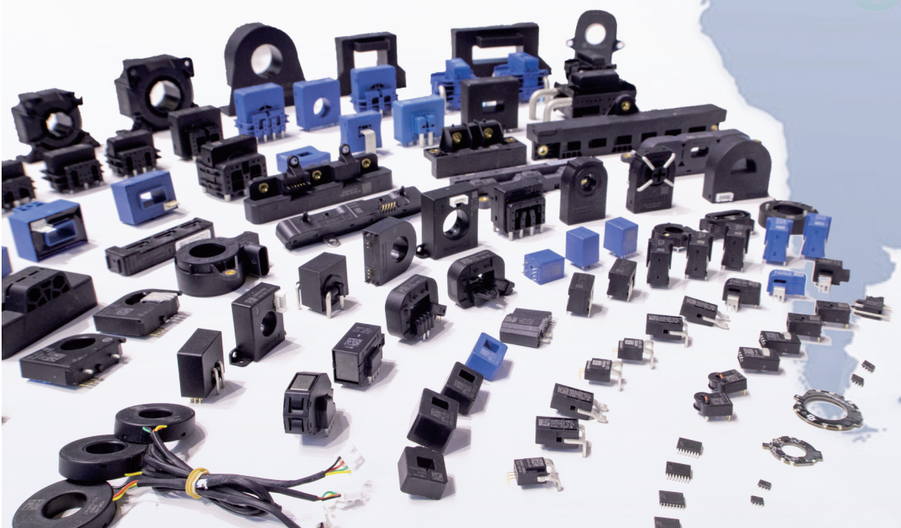
# 100 Mpcs

PV industry current sensors: Over **50%** market dominance

Automotive-grade current sensors: 30% global market share

光伏行业电流传感器的市场占有率超过 50%,汽车行业30%

# 50%+



SINOMAGS CURRENT SENSOR

SINOMAGS 希磁科技

Founded in 2013, Sinomags is dedicated to the development and production of magnetic sensors.

We have four subsidiary companies in Germany, Wuxi, Ningbo, and Bengbu. And we have invested in a magnetic encoder R&D and production based in Wuxi.

The company's R&D team consists of more than 200 engineers and experts in the field of magnetism and power electronics as the core, covering the design development and production of the whole industrial chain from xMR wafers to sensor modules.

With the mastery of the core technology of magnetic sensing and continuous innovation, Sinomags is providing more competitive solutions for new energy power generation, new energy vehicles, smart grid, smart home, smart manufacturing and other industries.

希磁科技成立于2013年，专注于磁性传感器的研发与生产，融合了设计、研发、生产以及销售于一体的运营模式，坚持自主创新。

希磁科技在安徽、宁波、无锡和德国设有四家子公司，并在无锡投资建立了磁性编码器研发生产基地。

希磁科技的产品系列包括:AMR，GMR，TMR晶圆，磁性传感器芯片，磁性传感器模组以及磁性检测系统等。

作为一家高新技术企业和国家专精特新小巨人企业，我们全球的员工人数近1200人，
技术团队由磁学和电力学领域的多名专家领衔，团队规模达200人。

凭借对磁传感核心技术的深入掌握和持续创新，希磁科技正为新能源发电、新能源汽车、智能电网、智能家居以及智能制造等行业提供更具竞争力的解决方案，推动技术进步和发展。


**Bengbu** (Sinomags)

Headquater
Production for Current Sensor

**Wuxi** (Lertech & Esstmags)

R&D
Sales Centers

**Ningbo** (Sinomags)

R&D & Production for Current Sensor

**Mainz** (SENSITEC)

Waferfab for magnetic sensor

**Wetzlar** (SENSITEC)

R&D Center for magnetic sensor

# NEW ENERGY GENERATION APPLICATION
## 新能源发电应用

AFCI


SCT-CTS/P


SCT-CTS/P1


STK-616 TMWD

AFCI&String


STK-CTS/P


STK-CTS/C


STK-616 TMWD

String


STK-PL series


STK-HD series


STK-CTS series


STK-616 series

MPPT


STK-PL series


STK-HD series


STB-HA/A


STK-HO

AC


STB-LA series


STB-CAS series

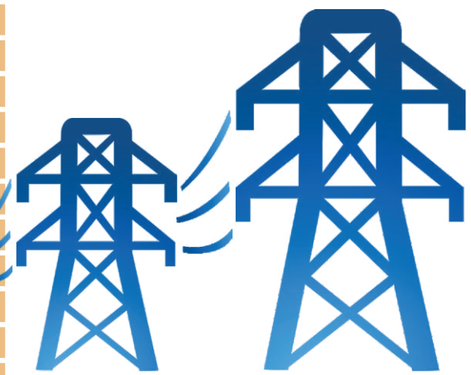

STK-PL series

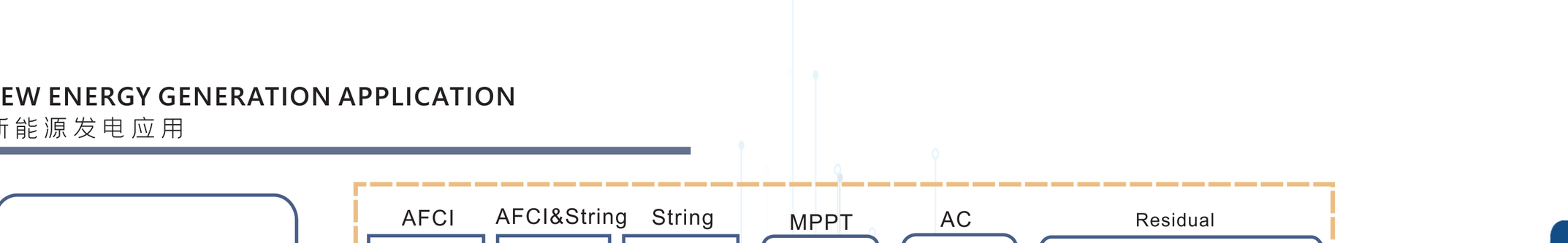
Residual


SFG-P series

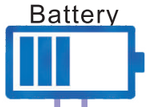

STK-M series


STB-LF





Battery



AC(load)

DC Energy Storage Inverter

grid side


STB-CAS

off-grid side


STK-PL series


STK-HD series

DC/DC


STK-616 series

PDU


SHK-VBS6


SHK-VBS/D


STB-CAB series

PCS


STB-LA/Z

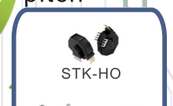

SFG-P series


STK-BS series

Wind power converter


STK-BS/T STK-BS/X

Wind power pitch


STK-HO


STK-600 Aa746

SVG/APF


STB-LF series STK-BS series STB-LA

Charging piles


SFG-CPL series STK-HO series STB-CAS series STK-616 series STK-600/M series STK-HD series STK-PL series

## NEW ENERGY GENERATION APPLICATION

## 新能源发电应用

· Meet the requirements for high pressure and high altitude
· Meet the requirements for high frequency
· Development based on underlying application requirements

满足高压和高海拔应用要求
满足高频应用要求
基于基本应用需求进行开发

### ◎ AFCI / 拉弧检测

| Product | Out | | | | | | ESD rating(HBM) | Application |
|---|---|---|---|---|---|---|---|---|
| | Current | Voltage | Self-inspection Inductance(μH) | Induction coil Inductance(μH) | Self-inspection Resistance(Ω) | Induction coil Resistance(Ω) | $U_{ESD}$(kV) | |
| SCT-CTS/P1 | ○ | | NA | 400 ~ 500 | NA | 0.4 ~ 1 | 4 | AFCI |
| SCT-CTS/P | ○ | | 135 ~ 205 | 530 ~ 580 | 0.4 ~ 1 | 0.8 ~ 2 | 4 | |

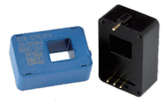
### ◎ AFCI & String / 拉弧组串检测

| Technology | | | Type | Out | | | Vcc (V) | I_pn (A) | I_pm (A) | UESD (kV) | Ud (kV) | BW (kHz) | t_r (μs) | X@IPN TA=25℃ (%FS) | X_TRange (%FS) | Conncetion | Application |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Open-loop | Closed-loop | Fluxgate | | Voltage | Digital | Current | | | | | | | | | | | |
| O | | | STK-CTS/C1 | O | | | 5 | 12.8 ~ 16 | 32 ~ 40 | 4 | 4 | 400 | 1 | 1 | 2 ~ 3 | THT | AFCI&String |
| O | | | STK-CTS/P | O | | | 5 | 12.8 ~ 20 | 20 ~ 50 | 4 | 4 | 400 | 1 | 1 | 2.5 | THT | |
| O | | | STK-CTS/P5 | O | | | 5 | 10 ~ 20 | 25 ~ 50 | 4 | 4 | 400 | 1 | 0.8 | 1.5 ~ 3 | THT | |
| O | | | STK-CTS/P6 | O | | | 5 | 25 ~ 40 | 25 ~ 40 | 4 | 4 | 400 | 1 | 1 | 2.5 | THT | |
| O | | | STK-CTS/PR | O | | | 5 | 50 | 50 | 4 | 4 | 400 | 1 | 1.5 | 2.5 | THT | |
| O | | | STK-CTS/CB | O | | | 5 | 32 | 32 | 4 | 4 | 400 | 1 | 1 | 3 | THT | |
| O | | | STK-CTS/C4 | O | | | 5 | 32 | 32 | 4 | 4 | 400 | 1 | 1 | 3 | THT | |
| O | | | STK-CTS/CE | O | | | 5 | 50 | 50 | 4 | 4 | 400 | 1 | 1 | 3 | THT | |
| O | | | STK-CTS/CC | O | | | 5 | 50 | 50 | 4 | 4 | 400 | 1 | 1 | 3 | SMT | |
| O | | | STK-CTS/A1 | O | | | 5 | 25 | 25 | 4 | 4 | 180 | 1 | 1 | 2.5 | THT | |
| O | | | STK-616TMW | O | | | 3.3、5 | 20 ~ 65 | 20 ~ 65 | 4 | 3.6 | 600 | 0.2 | 1.5 | 3.5 | SMT | |
| O | | | STK-616TMWD | O | | | 3.3、5 | 20 ~ 65 | 1, 20 ~ 65 | 8 | 5 | 600 | 0.2 | 1.5 | 3.5 | SMT | |

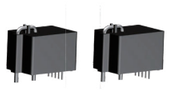
SCT-CTS/P1

SCT-CTS/P

STK-CTS/C1



STK-CTS/P5,P6,PR



STK-CTS/CB

STK-CTS/CC,C4

STK-CTS/CE

STK-CTS/A1

### ◎ String/ 组串电流检测

| Technology | | | Type | Out | | | Vcc (V) | I_pn (A) | I_pm (A) | UESD (kV) | Ud (kV) | BW (kHz) | t_r (μs) | X@IPN TA=25℃ (%FS) | X_TRange (%FS) | Conncetion | Application |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Open-loop | Closed-loop | Fluxgate | | Voltage | Digital | Current | | | | | | | | | | | |
| O | | | STK-616AM | O | | | 3.3、5 | 25 ~ 100 | 25 ~ 100 | 4 | 4 | 600 | 0.9 | 1.5 | 3.5 | SMT | String |
| O | | | STK-616AM3 | O | | | 3.3、5 | 50 ~ 180 | 50 ~ 180 | 4 | 4 | 600 | 0.9 | 1 | 3.5 | SMT | |
| O | | | STK-616AM5 | O | | | 3.3、5 | 20 ~ 200 | 20 ~ 200 | 4 | 4 | 600 | 0.9 | 1.5 | 3.5 | SMT | |
| O | | | STK-616AM8 | O | | | 3.3、5 | 50 ~ 133 | 50 ~ 133 | 4 | 4 | 600 | 0.9 | 1 | 3.5 | SMT | |
| O | | | STK-616BML | O | | | 3.3、5 | 6.5 ~ 65 | 6.5 ~ 65 | 4 | 3.6 | 600 | 0.9 | 1.5 | 3.5 | SMT | |
| O | | | STK-616DML | O | | | 3.3、5 | 6 ~ 25 | 14.5 ~ 75 | 4 | 3.6 | 600 | 0.9 | 1.5 | 3.5 | SMT | |
| O | | | STK-616HML | O | | | 3.3、5 | 10 ~ 30 | 25 ~ 75 | 4 | 3.6 | 600 | 0.9 | 1.5 | 3.5 | SMT | |
| O | | | STK-616KMF | O | | | 3.3、5 | 20 ~ 65 | 20 ~ 65 | 4 | 3.6 | 1500 | 0.2 | 1.5 | 3.5 | SMT | |
| O | | | STK-616TML | O | | | 3.3、5 | 10 ~ 133 | 10 ~ 133 | 4 | 3.6 | 600 | 0.9 | 3.5 | 3.5 | SMT | |
| O | | | STK-616TMF | O | | | 3.3、5 | 10 ~ 65 | 10 ~ 65 | 4 | 3.6 | 1500 | 0.2 | 1.5 | 3.5 | SMT | |
| O | | | STK-616TMF5 | O | | | 3.3、5 | 10 ~ 133 | 10 ~ 133 | 4 | 3.6 | 1500 | 0.6 | 1.5 | 3.5 | SMT | |
| O | | | STK-616TMM | O | | | 3.3、5 | 20 ~ 65 | 20 ~ 65 | 4 | 3.6 | 600 | 0.2 | 1.5 | 3.5 | SMT | |
| O | | | STK-616TMW | O | | | 3.3、5 | 20 ~ 65 | 20 ~ 65 | 4 | 3.6 | 600 | 0.2 | 1.5 | 3.5 | SMT | |
| O | | | STK-616TMWD | O | | | 3.3、5 | 20 ~ 65 | 1, 20 ~ 65 | 8 | 5 | 600 | 0.2 | 1.5 | 3.5 | SMT | |
| O | | | STK-616ZMF | O | | | 3.3、5 | 10 ~ 65 | 10 ~ 65 | 2 | 3.6 | 2000 | 0.05 | 1.5 | 3.5 | SMT | |
| O | | | STK-616ZMT | O | | | 3.3、5 | 10 ~ 65 | 10 ~ 65 | 4 | 2.4 | 2000 | 0.05 | 1.5 | 3.5 | SMT | |
| O | | | STK-PL/A | O | | | 5 | 10 ~ 50 | 25 ~ 125 | 5 | 4 | 400 | 1.5 | 1 | 2 | THT | |
| O | | | STK-PL/Z | O | | | 3.3、5 | 50 ~ 180 | 125 ~ 450 | 4 | 5 | 400 | 1.5 | 1 | 2 | THT | |
| O | | | STK-HD/P | O | | | 5, 3.3 | 5 ~ 30 | 12.5 ~ 75 | 4 | 4 | 600 | 1 | 1 | 3 | THT | |
| O | | | STK-HD/K | O | | | 5 | 20 ~ 50 | 50 ~ 100 | 4 | 4 | 600 | 1 | 0.8 | 1.5 | THT | |

STK-616TMW, TMWD

STK-616ZM

STK-616AMx

STK-616xM

STK-PL/A

STK-PL/Z

STK-HD/P

STK-HD/K

### ◎ MPPT / 光伏逆变器 MPPT

| Technology | | | Type | Out | | | Vcc (V) | I_pn (A) | I_pm (A) | UESD (kV) | Ud (kV) | BW (kHz) | t_r (μs) | X@IPN TA=25℃ (%FS) | X_TRange (%FS) | Conncetion | Application |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Open-loop | Closed-loop | Fluxgate | | Voltage | Digital | Current | | | | | | | | | | | |
| O | | | STK-HO | O | | | 5 | 60 ~ 150 | 150 ~ 375 | 4 | 4 | 200 | 2 | 1.5 | 3 | THT | MPPT |
| O | | | STK-HO/2 | O | | | 5 | 60 ~ 250 | 150 ~ 625 | 4 | 4.3 | 200 | 1.5 | 1 | 3 | THT | |
| O | | | STK-HO/4 | O | | | 5 | 50 ~ 250 | 125 ~ 625 | 4 | 4.3 | 200 | 1.5 | 1 | 3 | THT | |
| O | | | STK-HO/1 | O | | | 5 | 100 ~ 200 | 300 ~ 600 | 4 | 4.3 | 200 | 2 | 1 | 3 | THT | |
| O | | | STK-HO/P | O | | | 5 | 50 ~ 400 | 150 ~ 600 | 4 | 4.3 | 50 | 5 | 1 | 3 | THT | |
| O | | | STK-HO/B | O | | | 5 | 50 ~ 180 | 125 ~ 350 | 4 | 4 | 1000 | 0.2 | 1 | 3 | THT | |
| O | | | STK-200HO/YS | O | | | 5 | ±200 | 1250 | 4 | 5.4 | 180 | 3 | 3.3 | 4 | THT | |
| O | | | STK-500HO/YS | O | | | 5 | ±500 | 1250 | 4 | 5.4 | 180 | 3 | 3.3 | 4 | THT | |

STK-HO

STK-HO/2

STK-HO/1&4

STK-HO/P

STK-HO/B

STK-HO/YS

## ◎ MPPT / 光伏逆变器 MPPT

| Technology | | | Type | Out | | | Vcc (V) | I_pn (A) | I_pm (A) | UESD (kV) | Ud (kV) | BW (kHz) | t_r (μs) | X@IPN TA=25℃ (%FS) | X_TRange (%FS) | Conncetion | Application |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Open-loop | Closed-loop | Fluxgate | | Voltage | Digital | Current | | | | | | | | | | | |
| | O | | STB-HA | O | | | ±15 | 3 ~ 40 | 9 ~ 120 | 4 | 4 | 150 | 1.5 | 0.8 | 0.8 | THT | MPPT |
| | O | | STB-HA/A | O | | | ±15 | 10 ~ 60 | 30 ~ 180 | 4 | 4 | 150 | 1.5 | 0.8 | 0.8 | THT | |
| | O | | STB-HA/Y | O | | | ±15 | 50 | 150 | 4 | 4 | 150 | 1.5 | 0.8 | 0.8 | THT | |
| | O | | STB-25HA1 | O | | | ±15 | 25 | 75 | 4 | NA | 150 | 1.5 | 1.5 | 1.5 | THT | |
| | O | | STB-50HA7 | O | | | ±15 | 50 | 150 | 4 | NA | 150 | 1.5 | 1.5 | 1.5 | THT | |
| O | | | STK-HD/P | O | | | 3.3、5 | 5 ~ 30 | 12.5 ~ 75 | 4 | 4 | 600 | 1 | 1 | 3 | THT | |
| O | | | STK-HD/S | O | | | 5 | 3 ~ 10 | 7.5 ~ 25 | 4 | 4 | 800 | 0.4 | 0.8 | 1.5 | THT | |
| O | | | STK-HD/C | O | | | 5 | 20 ~ 40 | NA | 4 | 4 | 400 | 1 | 1 | 3 | THT | |
| O | | | STK-HD/K | O | | | 5 | 20 ~ 50 | 50 ~ 100 | 4 | 4 | 600 | 1 | 0.8 | 1.5 | THT | |
| O | | | STK-HD/KA | O | | | 5 | 20 ~ 50 | 50 ~ 100 | 4 | 4 | 600 | 1 | 0.8 | 1.5 | THT | |
| O | | | STK-HD/KS | O | | | 3.3 | 20 ~ 50 | 50 ~ 100 | 4 | 4 | 600 | 1 | 0.8 | 1.5 | THT | |
| O | | | STK-HD/P1/x | O | | | 5 | 20 ~ 30 | 20 ~ 50 | 4 | 4 | 600 | 1 | 1 | 3 | THT | |
| O | | | STK-HD/P3 | O | | | 5 | 20 | 20 | 4 | 4 | 600 | 1 | 1 | 3 | THT | |
| O | | | STK-HD/P4 | O | | | 5 | 20 | 50 | 4 | 4 | 600 | 1 | 1 | 3 | THT | |
| O | | | STK-HD/SG | O | | | 5 | 15 | NA | 4 | 4 | 600 | 0.4 | 0.8 | 1.5 | THT | |
| O | | | STK-HD/P/G | O | | | 5 | 5 ~ 30 | 12.5 ~ 75 | 4 | 4 | 1000 | 0.5 | 1 | 3 | THT | |
| O | | | STK-PL/A | O | | | 5 | 10 ~ 50 | 25 ~ 125 | 5 | 4 | 400 | 1.5 | 1 | 2 | THT | |
| O | | | STK-PL/Q | O | | | 5 | 50 | 50 | 5 | 4 | 300 | 1.5 | 1.5 | 3 | THT | |
| O | | | STK-PL/P1 | O | | | 3.3 | 10 ~ 50 | 30 ~ 150 | 5 | 4 | 400 | 1.5 | 1 | 2 | THT | |
| O | | | STK-PL/AH1 | O | | | 5 | 10 ~ 50 | 25 ~ 125 | 5 | 4 | 400 | 1.5 | 1 | 2 | THT | |
| O | | | STK-PL/Z | O | | | 3.3、5 | 50 ~ 180 | 125 ~ 450 | 4 | 5 | 400 | 1.5 | 1 | 2 | THT | |
| O | | | STK-50PL/Z1 | O | | | 5 | 50 | 150 | 4 | 5 | 400 | 1.5 | 1 | 3 | THT | |
| O | | | STK-100PL/Z2 | O | | | 5 | 100 | 200 | 4 | 5 | 400 | 1.5 | 1 | 3 | THT | |
| O | | | STK-50PL/Z3 | O | | | 3.3 | 50 | 150 | 4 | 5 | 400 | 1.5 | 1 | 3 | THT | |
| O | | | STK-200PL/Z | O | | | 5 | 200 | 500 | 4 | 5 | 300 | 1.5 | 1 | 2 | THT | |
| O | | | STK-616AM | O | | | 3.3、5 | 25 ~ 100 | 25 ~ 100 | 4 | 4 | 600 | 0.9 | 1.5 | 3.5 | SMT | |
| O | | | STK-616AM3 | O | | | 3.3、5 | 50 ~ 180 | 50 ~ 180 | 4 | 4 | 600 | 0.9 | 1 | 3.5 | SMT | |
| O | | | STK-616AM5 | O | | | 3.3、5 | 20 ~ 200 | 20 ~ 200 | 4 | 4 | 600 | 0.9 | 1.5 | 3.5 | SMT | |
| O | | | STK-616AM8 | O | | | 3.3、5 | 50 ~ 133 | 50 ~ 133 | 4 | 4 | 600 | 0.9 | 1 | 3.5 | SMT | |
| O | | | STK-616BML | O | | | 3.3、5 | 6.5 ~ 65 | 6.5 ~ 65 | 4 | 3.6 | 600 | 0.9 | 1.5 | 3.5 | SMT | |
| O | | | STK-616DML | O | | | 3.3、5 | 6 ~ 25 | 14.5 ~ 75 | 4 | 3.6 | 600 | 0.9 | 1.5 | 3.5 | SMT | |
| O | | | STK-616HML | O | | | 3.3、5 | 10 ~ 30 | 25 ~ 75 | 4 | 3.6 | 600 | 0.9 | 1.5 | 3.5 | SMT | |
| O | | | STK-616KMF | O | | | 3.3、5 | 20 ~ 65 | 20 ~ 65 | 4 | 3.6 | 1500 | 0.2 | 1.5 | 3.5 | SMT | |
| O | | | STK-616TML | O | | | 3.3、5 | 10 ~ 133 | 10 ~ 133 | 4 | 3.6 | 600 | 0.9 | 3.5 | 3.5 | SMT | |
| O | | | STK-616TMF | O | | | 3.3、5 | 10 ~ 65 | 10 ~ 65 | 4 | 3.6 | 1500 | 0.2 | 1.5 | 3.5 | SMT | |
| O | | | STK-616TMF5 | O | | | 3.3、5 | 10 ~ 133 | 10 ~ 133 | 4 | 3.6 | 1500 | 0.6 | 1.5 | 3.5 | SMT | |
| O | | | STK-616TMM | O | | | 3.3、5 | 20 ~ 65 | 20 ~ 65 | 4 | 3.6 | 600 | 0.2 | 1.5 | 3.5 | SMT | |
| O | | | STK-616TMW | O | | | 3.3、5 | 20 ~ 65 | 20 ~ 65 | 4 | 3.6 | 600 | 0.2 | 1.5 | 3.5 | SMT | |
| O | | | STK-616TMWD | O | | | 3.3、5 | 20 ~ 65 | 1, 20 ~ 65 | 8 | 5 | 600 | 0.2 | 1.5 | 3.5 | SMT | |
| O | | | STK-616ZMF | O | | | 3.3、5 | 10 ~ 65 | 10 ~ 65 | 2 | 3.6 | 2000 | 0.05 | 1.5 | 3.5 | SMT | |
| O | | | STK-616ZMT | O | | | 3.3、5 | 10 ~ 65 | 10 ~ 65 | 4 | 2.4 | 2000 | 0.05 | 1.5 | 3.5 | SMT | |


STB-HA


STB-HA/A


STB-HA/Y


STB-HA/A1,A7


STK-HD/P,P1,P3,P4, PG


STK-HD/S,SG


STK-HD/C


STK-HD/K,KA,KS


STK-PL/A


STK-PL/Q


STK-PL/P1


STK-PL/AH1


STK-PL/Z&Zx


STK-616AMx

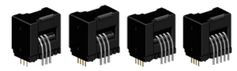

STK-616xM


STK-616ZM

## ◎ AC / 交流检测

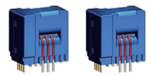
| Technology | | | Type | Out | | | Vcc (V) | I_pn (A) | I_pm (A) | UESD (kV) | Ud (kV) | BW (kHz) | t_r (μs) | X@IPN TA=25℃ (%FS) | X_TRange (%FS) | Conncetion | Application |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Open-loop | Closed-loop | Fluxgate | | Voltage | Digital | Current | | | | | | | | | | | |
| | O | | STB-CAS/x | O | | | 5 | 15 ~ 75 | 51 ~ 220 | 4 | 5 | 400 | 0.3 | 0.8 | 2.5 | THT | AC |
| | O | O | STB-CAS/F | O | | | 5 | 6 ~ 75 | 20 ~ 220 | 4 | 5 | 400 | 0.3 | 0.8 | 1.4 | THT | |
| | O | O | STB-CAS/FA | O | | | 5 | 6 ~ 75 | 20 ~ 220 | 4 | 4 | 400 | 0.3 | 0.8 | 1.1 | THT | |
| | O | O | STB-CAS/K-FC | O | | | 5 | 25 ~ 50 | 85 ~ 150 | 4 | 4 | 400 | 0.3 | 0.8 | 1.1 | THT | |
| | O | | STB-CAS/RH | O | | | 5 | 25 | 85 | 4 | 4 | 400 | 0.3 | 0.8 | 1.15 | THT | |
| | O | | STB-CAS/FB | | | O | 5 | 25 | 50.1 | 4 | 8 | 200 | 1 | 0.5 | 0.5 | THT | |
| | O | | STB-LA | | | O | ±12 ~ ±15 | 50 ~ 150 | 200 ~ 240 | 4 | 4 | 150 | 0.5 | 0.5 | 0.5 | THT | |
| | O | | STB-LA/N1 | | | O | ±12 ~ ±15 | 25 ~ 100 | 55 ~ 200 | 4 | 4 | 150 | 0.5 | NA | 0.5 | THT | |
| | O | | STB-LA/A | O | | | 5 | 25 | 25 | 4 | 4 | 200 | 0.3 | 10 | 10 | THT | |
| | O | | STB-LA/B | | | O | ±12 or ±15 | 100 | 188, 236 | NA | 1.8 | 200 | 1 | 0.1 | 0.1 | THT | |
| | O | | STB-LA/D | | | O | ±12 ~ ±15 | 25 ~ 100 | 55 ~ 175 | 4 | 4 | 150 | 0.5 | 0.5 | 1.5 | THT | |
| | O | | STB-LA/DF | | | O | ±12 ~ ±15 | 25 ~ 100 | 55 ~ 175 | 4 | 5 | 150 | 0.5 | 0.5 | NA | THT | |
| | O | | STB-50LA/DH | | | O | ±12 ~ ±15 | 50 | 128 | 4 | 4 | 150 | 0.5 | 0.3 | 0.3 | THT | |
| | O | | STB-LA/E | | | O | ±15 | 200 | NA | NA | 3 | 100 | 1 | 0.5 | 0.6 | THT | |
| | O | | STB-LA/F | | | O | ±15 | 230 | 425, 220 | NA | 3 | 100 | 1 | 0.5 | 0.5 | THT | |
| | O | | STB-LA/S | O | | | 5 | 100 | 220 | 4 | 4 | 300 | 0.5 | 0.8 | 1.1 | THT | |
| | O | | STB-LA/SF | O | | | 5 | 100 | 200 | 4 | 4 | 100 | 1 | 0.7 | 0.7 | THT | |
| | O | | STB-LA/M | O | | | 5 | 300 | 600 | 4 | 4 | 300 | 0.6 | 0.8 | 1.1 | THT | |
| | O | | STB-300LA/M | O | | | 5 | 300 | 600 | 4 | 4 | 300 | 0.6 | 0.8 | 1.1 | THT | |
| | O | | STB-LA/AM3 | O | | | 12 | 50 | 50 | 4 | 4 | 100 | / | 10 | 10 | THT | |
| | O | | STB-250LA/ZR | O | | | 5 | 250 | 380, 450 | 4 | 4 | 200 | 3 | 1 | 1.4 | THT | |
| | O | | STB-LA/Zx | O | | | 5 | 100 ~ 200 | 300 ~ 450 | 4 | 4 | 300 | 0.3 | 0.8 | 1.1 | THT | |
| | O | | STB-250LA/Zx | O | | | 5 | 250 | 450 | 4 | 4 | 200 | 3 | 1 | 1.4 | THT | |


STB-CAS/x


STB-CAS/F


STB-CAS/FA


STB-CAS/K-FC


STB-CAS/RH


STB-CAS/FB


STB-LA


STB-LA/N1


STB-LA/A


STB-LA/B


STB-LA/D


STB-LA/DF&DH


STB-LA/E


STB-LA/F


STB-LA/S


STB-LA/SF


STB-LA/M


STB-300LA/M


STB-LA/AM3


STB-250LA/ZR


STB-LA/Zx


STB-250LA/Zx

## ◎ AC / 交流检测 （离网侧&电网侧）

| Technology | | | Type | Out | | | Vcc (V) | I_pn (A) | I_pm (A) | UESD (kV) | Ud (kV) | BW (kHz) | t_r (μs) | X@IPN TA=25℃ (%FS) | X_TRange (%FS) | Conncetion | Application |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Open-loop | Closed-loop | Fluxgate | | Voltage | Digital | Current | | | | | | | | | | | |
| O | | | STK-PL/A | O | | | 5 | 10 ~ 50 | 25 ~ 125 | 5 | 4 | 400 | 1.5 | 1 | 2 | THT | AC |
| O | | | STK-PL/Q | O | | | 5 | 50 | 50 | 5 | 4 | 300 | 1.5 | 1.5 | 3 | THT | |
| O | | | STK-PL/P1 | O | | | 3.3 | 10 ~ 50 | 30 ~ 150 | 5 | 4 | 400 | 1.5 | 1 | 2 | THT | |
| O | | | STK-PL/AH1 | O | | | 5 | 10 ~ 50 | 25 ~ 125 | 5 | 4 | 400 | 1.5 | 1 | 2 | THT | |
| O | | | STK-PL/Z | O | | | 3.3、5 | 50 ~ 180 | 125 ~ 450 | 4 | 5 | 400 | 1.5 | 1 | 2 | THT | |
| O | | | STK-50PL/Z1 | O | | | 5 | 50 | 150 | 4 | 5 | 400 | 1.5 | 1 | 3 | THT | |
| O | | | STK-100PL/Z2 | O | | | 5 | 100 | 200 | 4 | 5 | 400 | 1.5 | 1 | 3 | THT | |
| O | | | STK-50PL/Z3 | O | | | 3.3 | 50 | 150 | 4 | 5 | 400 | 1.5 | 1 | 3 | THT | |
| O | | | STK-200PL/Z | O | | | 5 | 200 | 500 | 4 | 5 | 300 | 1.5 | 1 | 2 | THT | |
| O | | | STK-HD/P | O | | | 5, 3.3 | 5 ~ 30 | 12.5 ~ 75 | 4 | 4 | 600 | 1 | 1 | 3 | THT | AC(Load） |
| O | | | STK-HD/K | O | | | 5 | 20 ~ 50 | 50 ~ 100 | 4 | 4 | 600 | 1 | 0.8 | 1.5 | THT | |
| O | | | STK-PL/A | O | | | 5 | 10 ~ 50 | 25 ~ 125 | 5 | 4 | 400 | 1.5 | 1 | 2 | THT | |
| O | | | STK-PL/Z | O | | | 3.3、5 | 50 ~ 180 | 125 ~ 450 | 4 | 5 | 400 | 1.5 | 1 | 2 | THT | |
| | O | | STB-CAB500 | | O | | 12 | 500 | NA | 4 | 2.5 | NA | NA | NA | 0.5 | Clamping | AC(grid） |
| | O | | STB-CAB540 | | O | | 12 | 540 | NA | 4 | 2.5 | NA | NA | NA | 0.5 | Clamping | |
| | O | | STB-CAB600X-XXC | | O | | 12 | 540 | NA | 4 | 2.5 | NA | NA | NA | 0.5 | Clamping | |
| | O | | STB-CAB500x-xxx | | O | | 12 | 500 | NA | 4 | 2.5 | NA | NA | NA | 0.5 | Clamping | |
| | O | | STB-CAB1000X-xx | | O | | 12 | 1000 | NA | 4 | 2.5 | NA | NA | NA | 0.5 | Clamping | |
| | | O | STB-CABxxN-xxF | | O | | 12 | 500~700 | NA | 4 | 2.5 | NA | NA | NA | 0.5 | Clamping | |
| | O | | STB-CAB1500 | | O | | 12 | 600 | NA | 4 | 2.5 | NA | NA | NA | 0.5 | Clamping | |

STK-PL/A

STK-PL/Q

STK-PL/P1

STK-PL/AH1

STK-PL/Z

STK-PL/Z1

STK-PL/Z2

STK-PL/Z3

STK-200PL/Z

STK-HD/P

STK-HD/K

STB-CAB 500,540

STB-CAB600X-XXC

STK-CAB500x-xxx

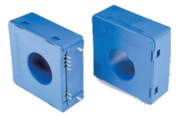
STK-CAB1000X-xx

STK-CABxxxN-xxF

STB-CAB1500

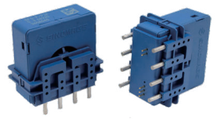
## ◎ Residual/漏电流检测

| Technology | | | Type | Out | | | Vcc (V) | I_pn (A) | I_pm (A) | UESD (kV) | Ud (kV) | BW (kHz) | t_r (μs) | X@IPN TA=25℃ (%FS) | X_TRange (%FS) | Conncetion | Application |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Open-loop | Closed-loop | Fluxgate | | Voltage | Digital | Current | | | | | | | | | | | |
| | | o | SFG-P | o | | | 5 | 0.3 ~ 5.0 | 0.5 ~ 8.0 | NA | 4 | 15 | 30 ~ 50 | 1.9 | 3.2 | THT | Residual |
| | | o | SFG-P/N1 | o | | | 5 | 0.3 ~ 5.0 | 0.5 ~ 10 | NA | 4 | 15 | 30 ~ 50 | 1.9 | 3.2 | THT | |
| | | o | SFG-P/P2F | o | | | 5 | 0.3 ~ 3.0 | 0.5 ~ 5.0 | NA | 4 | 15 | 40 ~ 50 | 1.9 | 3.2 | THT | |
| | | o | SFG-P/PF | o | | | 5 | 0.6 ~ 3.0 | 0.85 ~ 5.0 | NA | 4 | 15 | 40 | 1.9 | 3.2 | THT | |
| | | o | SFG-P/P3 | o | | | 5 | 3.0 ~ 5.0 | 5.0 ~ 8.0 | NA | 4 | 15 | 40 | 1.9 | 3.2 | THT | |
| | | o | SFG-P/P4 | o | | | 5 | 3.0 ~ 5.0 | 5.0 ~ 8.0 | NA | 4 | 15 | 40 | 1.9 | 3.2 | THT | |
| | | o | SFG-P/P6 | o | | | 5 | 0.3 ~ 5.0 | 0.5 ~ 10 | NA | 4 | 15 | 50 | 1.9 | 3.2 | THT | |
| | | o | SFG-P/P7 | o | | | 5 | 0.3 | 0.5 | NA | 4 | 15 | 40 | 1.9 | 3.2 | THT | |
| | | o | SFG-P/L3 | o | | | 5 | 0.6 ~ 5 | 0.85 ~ 10 | NA | 5.1 | 15 | 30 ~ 50 | 1.9 | 3.2 | THT | |
| | | o | SFG-P/L4 | o | | | 5 | 0.6 ~ 6 | 0.85 ~ 10 | NA | 5.1 | 15 | 30 ~ 50 | 1.9 | 3.2 | THT | |
| | | o | SFG-P/S | o | | | 5 | 0.3 ~ 1.0 | 0.5 ~ 1.7 | NA | 4 | 0.7 | 700 | 2 | 4 | THT | |
| | | o | SFG-P/S4 | o | | | 5 | 0.3 ~ 1.0 | 0.5 ~ 1.7 | NA | 4 | 0.7 | 700 | 2 | 4 | THT | |
| | | o | SFG-P/S5 | o | | | 5 | 0.3 ~ 1.0 | 0.5 ~ 1.7 | NA | 4 | 0.7 | 700 | 2 | 4 | THT | |
| | | o | STK-P/M | o | | | 5 | 0.3 ~ 1.0 | 0.5 ~ 1.7 | NA | 5 | 0.7 | 700 | 2 | 4 | THT | |
| | | o | STK-P/M3 | o | | | 5 | 0.3 ~ 1.0 | 0.5 ~ 1.7 | NA | 5 | 0.7 | 700 | 2 | 4 | THT | |
| | | o | STK-P/M4 | o | | | 5 | 0.3 ~ 1.0 | 0.5 ~ 1.7 | NA | 5 | 0.7 | 700 | 2 | 4 | THT | |
| | | o | STK-P/M5 | o | | | 5 | 0.3 ~ 1.0 | 0.5 ~ 1.7 | NA | 5 | 0.7 | 700 | 2 | 4 | THT | |



SFG-P/N1

SFG-P series



SFG-P/P2F

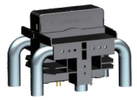
SFG-P/PF

SFG-P/P3

SFG-P/P4

SFG-P/P6

SFG-P/P7



SFG-P/L3

SFG-P/L4

SFG-P/S series

SFG-P/S series

STK-P/M3

STK-P/M4

STK-P/M5

STK-P/M series

## ◎ Power Grid / 电网

| Technology | | | Type | Out | | | Vcc (V) | I_pn (A) | I_pm (A) | UESD (kV) | Ud (kV) | BW (kHz) | t_r (μs) | X@IPN TA=25℃ (%FS) | X_TRange (%FS) | Conncetion | Application |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Open-loop | Closed-loop | Fluxgate | | Voltage | Digital | Current | | | | | | | | | | | |
| | O | | STB-LA | | | O | ±12 ~ ±15 | 50 ~ 150 | 200 ~ 240 | 4 | 4 | 150 | 0.5 | 0.5 | 0.5 | THT | Power Grid |
| | O | | STB-LA/N1 | | | O | ±12 ~ ±15 | 25 ~ 100 | 55 ~ 200 | 4 | 4 | 150 | 0.5 | NA | 0.5 | THT | |
| | O | | STB-LA/A | O | | | 5 | 25 | 25 | 4 | 4 | 200 | 0.3 | 10 | 10 | THT | |
| | O | | STB-LA/B | | | O | ±12 or ±15 | 100 | 188, 236 | NA | 1.8 | 200 | 1 | 0.1 | 0.1 | THT | |
| | O | | STB-LA/D | | | O | ±12 ~ ±15 | 25 ~ 100 | 55 ~ 175 | 4 | 4 | 150 | 0.5 | 0.5 | 1.5 | THT | |
| | O | | STB-LA/DF | | | O | ±12 ~ ±15 | 25 ~ 100 | 55 ~ 175 | 4 | 5 | 150 | 0.5 | 0.5 | NA | THT | |
| | O | | STB-50LA/DH | | | O | ±12 ~ ±15 | 50 | 128 | 4 | 4 | 150 | 0.5 | 0.3 | 0.3 | THT | |
| | O | | STB-LA/E | | | O | ±15 | 200 | NA | NA | 3 | 100 | 1 | 0.5 | 0.6 | THT | |
| | O | | STB-LA/F | | | O | ±15 | 230 | 425, 220 | NA | 3 | 100 | 1 | 0.5 | 0.5 | THT | |
| | O | | STB-LA/S | O | | | 5 | 100 | 220 | 4 | 4 | 300 | 0.5 | 0.8 | 1.1 | THT | |
| | O | | STB-LA/SF | O | | | 5 | 100 | 200 | 4 | 4 | 100 | 1 | 0.7 | 0.7 | THT | |
| | O | | STB-LA/M | O | | | 5 | 300 | 600 | 4 | 4 | 300 | 0.6 | 0.8 | 1.1 | THT | |
| | O | | STB-300LA/M | O | | | 5 | 300 | 600 | 4 | 4 | 300 | 0.6 | 0.8 | 1.1 | THT | |
| | O | | STB-LA/AM3 | O | | | 12 | 50 | 50 | 4 | 4 | 100 | / | 10 | 10 | THT | |
| | O | | STB-250LA/ZR | O | | | 5 | 250 | 380, 450 | 4 | 4 | 200 | 3 | 1 | 1.4 | THT | |
| | O | | STB-LA/Zx | O | | | 5 | 100 ~ 200 | 300 ~ 450 | 4 | 4 | 300 | 0.3 | 0.8 | 1.1 | THT | |
| | O | | STB-250LA/Zx | O | | | 5 | 250 | 450 | 4 | 4 | 200 | 3 | 1 | 1.4 | THT | |
| O | | | STK-BS1 | O | | | ±15 | 100 ~ 600 | 300 ~ 900 | 4 | 4 | 50 ~ 150 | 2 ~ 7 | 1 | 2 | THT | |
| O | | | STK-BS2 | O | | | ±15 | 500 | 900 | 4 | 4 | 50 | 5 | 1 | 1 | THT | |
| O | | | STK-BS6 | O | | | ±15 | 50 ~ 600 | 150 ~ 900 | 4 | 4 | 50 | 5 | 1 | 1 | THT | |
| O | | | STK-BS9 | O | | | ±15 | 50 ~ 600 | 150 ~ 900 | 4 | 4 | 50 ~ 150 | 3 | 1 | 2 | THT | |
| O | | | STK-BS10 | O | | | ±15 | 100 ~ 600 | 300 ~ 900 | 4 | 4 | 50 ~ 150 | 2 ~ 4 | 1 | 2 | THT | |
| O | | | STK-BS/S1 | O | | | 5 | 50 ~ 600 | 150 ~ 1100 | 4 | 3.3 | 60 | 3.5 | 1 | 3.5 | THT | |
| O | | | STK-BS/S2 | O | | | 5 | 50 ~ 600 | 150 ~ 1100 | 4 | 3.3 | 60 | 3.5 | 1 | 3.5 | THT | |
| O | | | STK-BS/S3 | O | | | 5 | 50 ~ 600 | 150 ~ 1100 | 4 | 3.3 | 250 | 3.5 | 1 | 3.5 | THT | |
| O | | | STK-BS/H | O | | | ±15 | 50 ~ 400 | 150 ~ 600 | 4 | 2.5 | 50 | 3 | 1 | 3 | THT | |
| O | | | STK-BS/H4 | O | | | 15 | 50 ~ 100 | 150 ~ 450 | 4 | 2.5 | 50 | 3 | 1 | 2 | THT | |
| O | | | STK-BS/A | O | | | ±12 ~ ±15 | 300 ~ 1000 | 900 ~ 3000 | 4 | 5 | 25 | 3 | 1 | 1 | THT | |
| O | | | STK-BS1B | O | | | ±15 | 100 ~ 600 | 300 ~ 900 | 4 | 4 | 70 ~ 150 | 2 ~ 4 | 1 | 2 | THT | |
| O | | | STK-BS1L | O | | | ±15 | 100 ~ 600 | 300 ~ 900 | 4 | 4 | 70 ~ 150 | 2 ~ 4 | 1 | 2 | THT | |


STB-LA


STB-LA/N1


STB-LA/A


STB-LA/B


STB-LA/D


STB-LA/DF&DH


STB-LA/A


STB-LA/F


STB-LA/S&SF


STB-LA/M


STB-300LA/M


STB-LA/AM3


STB-250LA/ZR


STB-LA/Zx


STB-250LA/Zx


STK-BS1


STK-BS2


STK-BS6


STK-BS9


STK-BS10


STK-BS/S1


STK-BS/S2


STK-BS/S3


STK-BS/H,H4


STK-BS-Ax


STK-BS1B


STK-BS1L

## ◎ Wind power / 风力发电&电网

| Technology | | | Type | Out | | | Vcc (V) | I_pn (A) | I_pm (A) | UESD (kV) | Ud (kV) | BW (kHz) | t_r (μs) | X@IPN TA=25℃ (%FS) | X_TRange (%FS) | Conncetion | Application |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Open-loop | Closed-loop | Fluxgate | | Voltage | Digital | Current | | | | | | | | | | | |
| O | | | STK-BS/T | O | | | ±12 ~ ±15 | 200 ~ 1500 | 600 ~ 2500 | 4 | 4.9 | 25 | 5 | 1 | 1 | Clamping | Wind power & Power Grid |
| O | | | STK-BS/T5 | O | | | ±15 | 163 ~ 2184 | 500 ~ 2500 | 4 | 4.9 | 25 | 5 | 1 | 1 | Clamping | |
| O | | | STK-BS/X | O | | | ±12 ~ ±15 | 500 ~ 2500 | 1500 ~ 5500 | 4 | 4 | 25 | 5 | 1 | 1 | Clamping | |
| O | | | STK-BS/X2 | O | | | ±15 | 3000 ~ 6000 | 4500 ~ 12000 | 4 | 5.6 | 1 | 0.2 | 1 | 1 | Clamping | |
| O | | | STK-BS/X4 | O | | | ±12 ~ ±15 | 500 ~ 2500 | 1500 ~ 5500 | 4 | 5 | 25 | 5 | 1 | 1 | Clamping | |
| O | | | STK-BS/X5 | O | | | ±12 ~ ±15 | 500 ~ 2500 | 1500 ~ 5500 | 4 | 4 | 25 | 5 | 1 | 1 | Clamping | |
| O | | | STK-BS/X6 | O | | | ±12 ~ ±15 | 500 ~ 2500 | 1500 ~ 5500 | 4 | 5 | 25 | 5 | 1 | 1 | Clamping | |
| O | | | STK-BS/X7 | O | | | ±12 ~ ±15 | 1200 ~ 3000 | 3600 ~ 5500 | 4 | 5 | 25 | 5 | 1 | 1 | Clamping | |
| O | | | STK-HO | O | | | 5 | 60 ~ 150 | 150 ~ 375 | 4 | 4 | 200 | 2 | 1.5 | 3 | THT | |
| | O | | STB-LF | O | | | ±12 ~ ±15 | 100 ~ 200 | 200 ~ 420 | 4 | 4 | 100 | 0.5 | 0.3 | 0.2 | Clamping | |
| | O | | STB-LF2 | O | | | ±12 ~ ±15 | 200 ~ 300 | 500 ~ 600 | 4 | 5 | 100 | 1 | 0.3 | 0.3 | Clamping | |
| | O | | STB-LF/2 | O | | | ±15 ~ ±18 | 500 | 800 | 4 | 4.95 | 100 | 0.5 | 0.4 | 0.4 | Clamping | |
| | O | | STB-LF/3 | O | | | ±15 | 366 | 950 | 4 | 3 | 100 | 1 | 0.42 | 0.42 | Clamping | |
| | O | | STB-LF4 | O | | | ±12 ~ ±20 | 300 | 500 | 4 | 3.8 | 100 | 1 | 0.5 | 0.5 | Clamping | |
| | O | | STB-LF4-A | O | | | ±24 | 300 | 860 | 4 | 3.8 | 100 | 1 | 0.47 | 0.47 | Clamping | |
| | O | | STB-LF4-B | O | | | ±12 ~ ±20 | 300 | 500 | 4 | 3.8 | 100 | 1 | 0.47 | 0.47 | Clamping | |
| | O | | STB-LF5 | O | | | ±15 ~ ±24 | 500 | 800 | 4 | 3.8 | 200 | 0.5 | 0.5 | 0.6 | Clamping | |
| | O | | STB-LF5-A | O | | | ±15 ~ ±24 | 500 | 800 | 4 | 4 | 200 | 1 | 0.6 | 0.6 | Clamping | |
| | O | | STB-LF5-B | O | | | ±15 ~ ±24 | 500 | 800 | 4 | 4 | 200 | 1 | 0.6 | 0.6 | Clamping | |
| | O | | STB-LF5-S | O | | | ±24 | 622 | 1700 | 4 | 3 | 100 | 1 | 0.6 | 0.6 | Clamping | |
| | O | | STB-LF6 | O | | | ±15 ~ ±24 | 1000 | 1500 | 4 | 3.8 | 200 | 0.5 | 0.4 | 0.4 | Clamping | |
| | O | | STB-LF7 | O | | | ±15 | 180 | 540 | 4 | 2.5 | 100 | 1 | 1.2 | 1.2 | Clamping | |
| | O | | STB-LF8 | O | | | ±15 | 88 | 240 | 4 | 2.5 | 100 | 1 | 1.2 | 1.2 | Clamping | |
| | O | | STB-LF9 | O | | | ±15 ~ ±20 | 300 | 700 | 3 | 3 | 100 | 1 | 0.3 | 0.36 | Clamping | |

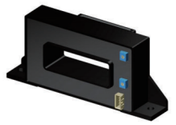

STK-BS/T


STK-BS/T5


STK-BS/X


STK-BS/X2


STK-BS/X4


STK-BS/X5

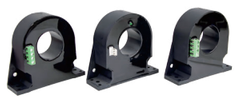

STK-BS/X6


STK-BS/X7


STK-HO


STB-LF


STB-LF2


STB-LF/2


STB-LF/3


STB-LF4/A,/B


STB-LF5/A,/B,/S


STB-LF6


STB-LF7


STB-LF8


STB-LF9