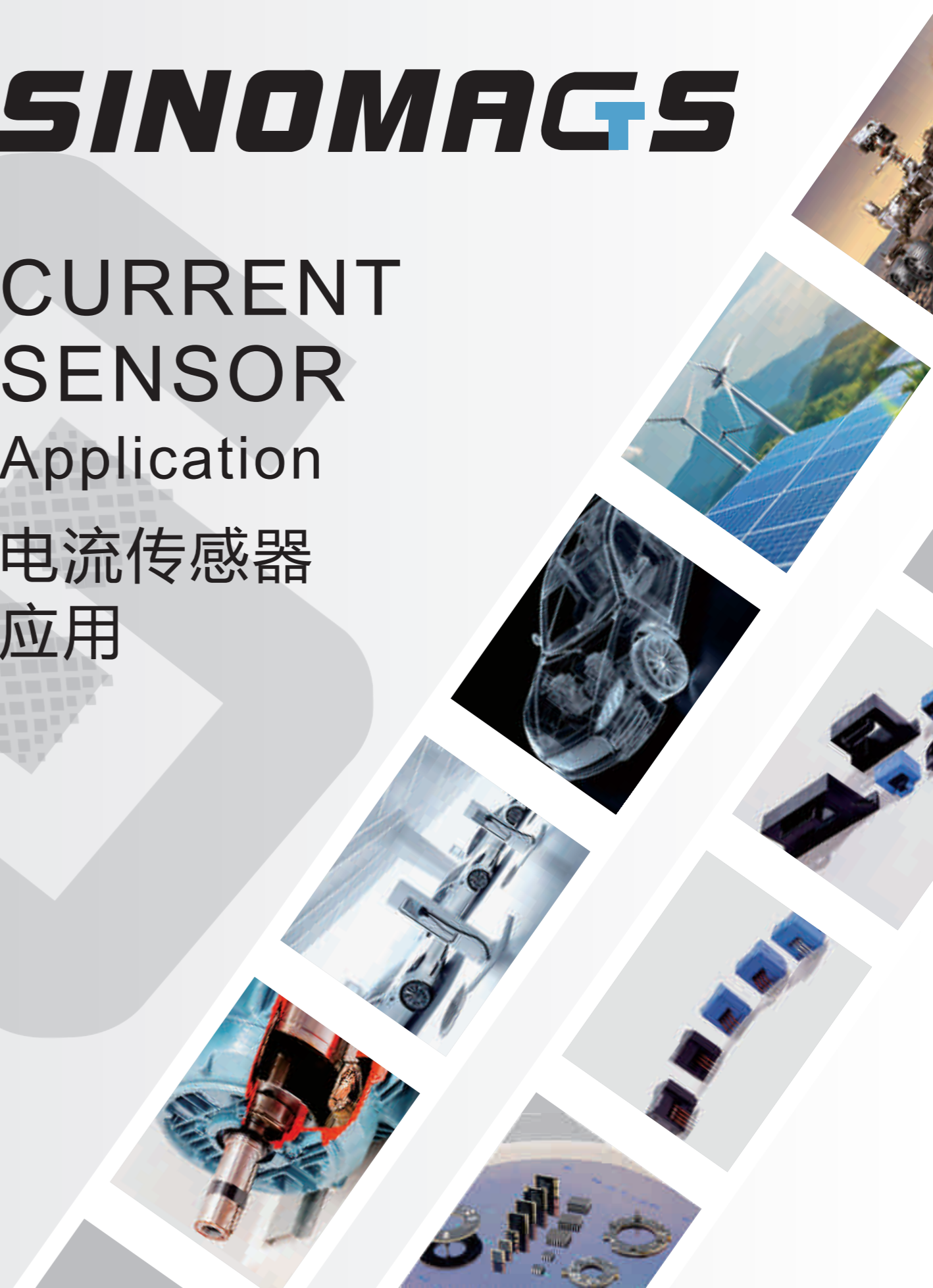
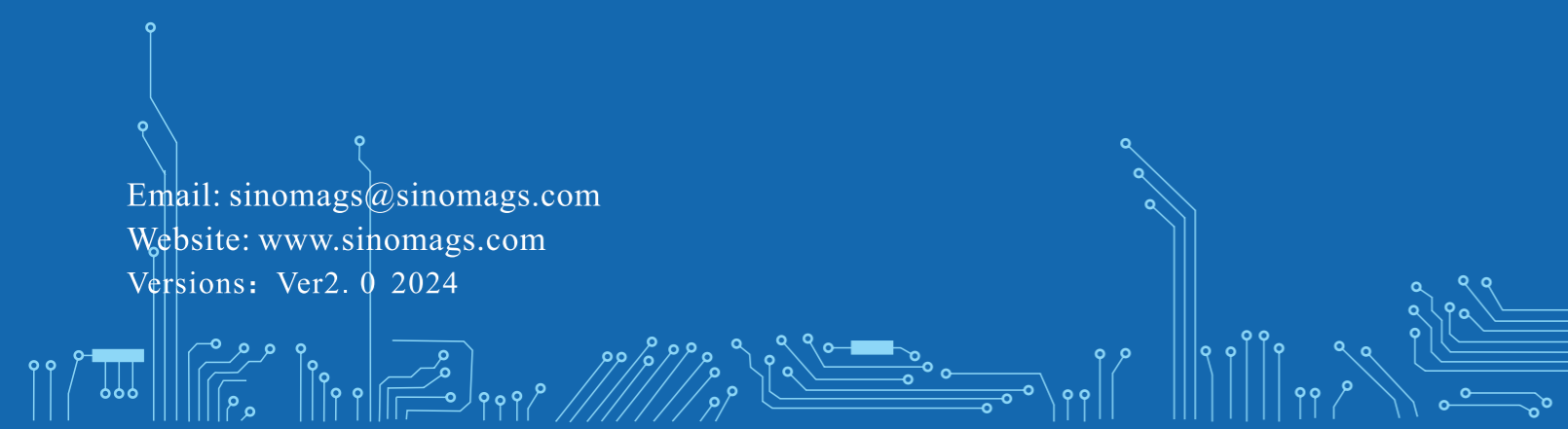


# **SINOMAGS**

## CURRENT SENSOR

Application

电流传感器  
应用





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

Cumulative current sensor shipments of 300 million units  
累计电流传感器出货量突破3亿颗

**300** Mpcs

SINOMAGS  
CURRENT SENSOR



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.

The company's R&D team consists of more than 200 personnel with number of 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。

希磁科技拥有安徽希磁科技、宁波希磁电子科技、无锡乐尔科技和德国SENSITEC四家子公司。

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动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**  
Headquarter  
Production for Current Sensor
-  **Wuxi**  
R&D  
Sales Centers
-  **Ningbo**  
R&D & Production for Current Sensor
-  **Mainz**  
Waferfab for magnetic sensor
-  **Wetzlar**  
R&D Center for magnetic sensor

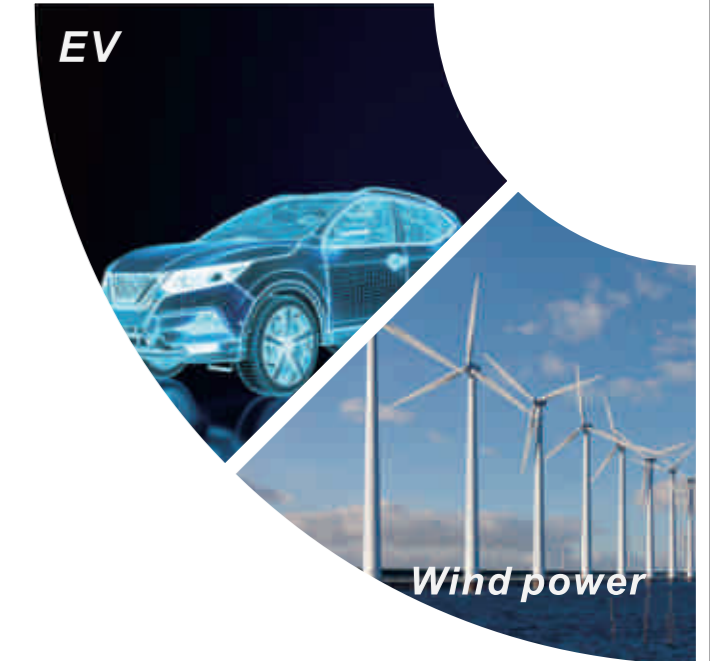
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Aerospace

Mars Exploration

EV

Wind power

Power supply

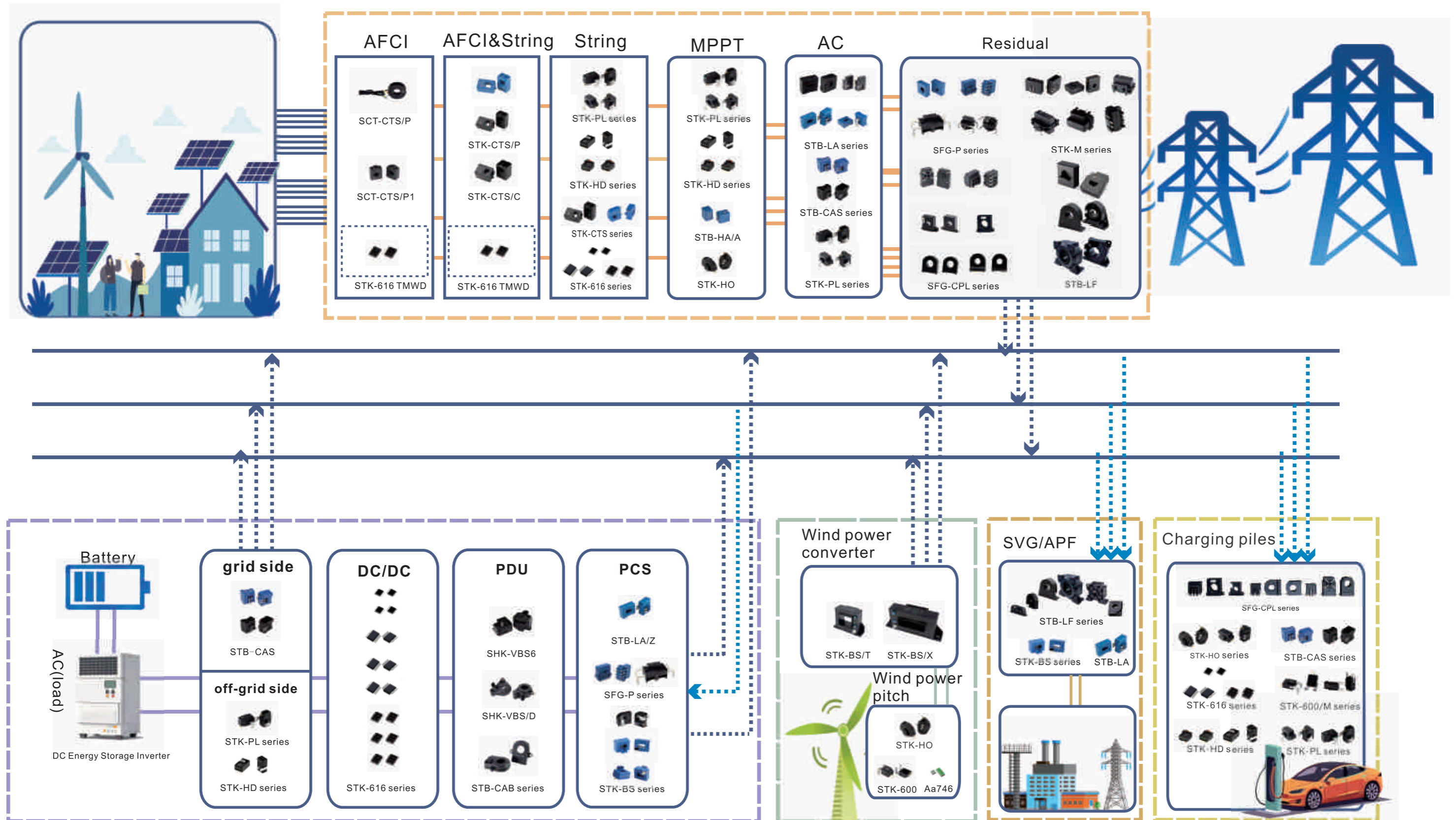
Charging Piles

Driver

PV

# NEW ENERGY GENERATION APPLICATION

新能源发电应用



# 01

## 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)		
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 <sub>pn</sub> (A)	I <sub>pm</sub> (A)	U <sub>ESD</sub> (kV)	U <sub>d</sub> (kV)	BW (kHz)	t <sub>r</sub> (μs)	X@I <sub>pn</sub> T <sub>a</sub> =25°C (%FS)	X <sub>TRange</sub> (%FS)	Connction	Application
		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-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/P



SCT-CTS/P1



STK-CTS/C1



STK-616TMWD



STK-CTS/P



### ◎ Strig / 组串电流检测

Technology	Type	Out			Vcc (V)	I <sub>pn</sub> (A)	I <sub>pm</sub> (A)	U <sub>ESD</sub> (kV)	U <sub>d</sub> (kV)	BW (kHz)	t <sub>r</sub> (μs)	X@I <sub>pn</sub> T <sub>a</sub> =25°C (%FS)	X <sub>TRange</sub> (%FS)	Connction	Application
		Voltage	Digital	Current											
o	STK-CTS/W	o			5	15~25	15~25	4	4	400	1	1	2	THT	String
o	STK-CTS/W1	o			5	25	25	4	4	3.5	120	1	2	THT	
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	30~65	30~65	4	3.6	1500	0.2	1.5	3.5	SMT	
o	STK-616TML	o			3.3, 5	20~133	30~65	4	3.6	600	0.9	3.5	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-PL/A	o			5	10~50	25~125	5	4	400	1.5	1	2	THT	
o	STK-PL/M	o			5	80~180	200~450	5	4	500	0.4	1	2	THT	
o	STK-PL/M2	o			5	80~180	200~450	5	4	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	
o	STK-HD/K	o			5	20~50	50~100	4	4	600	1	0.8	1.5	THT	

### ◎ MPPT / 光伏逆变器 MPPT

Technology	Type	Out			Vcc (V)	I <sub>pn</sub> (A)	I <sub>pm</sub> (A)	U <sub>ESD</sub> (kV)	U <sub>d</sub> (kV)	BW (kHz)	t <sub>r</sub> (μs)	X@I <sub>pn</sub> T <sub>a</sub> =25°C (%FS)	X <sub>TRange</sub> (%FS)	Connction	Application
		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-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	
o	STK-PL/A	o			5	10~50	25~125	5	4	400	1.5	1	2	THT	
o	STK-PL/M	o			5	80~180	200~450	5	4	500	0.4	1	2	THT	
o	STK-PL/M2	o			5	80~180	200~450	5	4	300	1.5	1	2	THT	
o	STB-HA/A	o			±15	10~60	30~180	4	4	150	1.5	0.8	0.8	THT	
o	STK-616AM3	o			3.3, 5	50~90	50~90	4	4	600	0.9	1	3.5	SMT	
o	STK-616AM5	o			3.3, 5	25~200	25~200	4	4	600	0.9	1.5	3.5	SMT	
o	STK-616AM8	o			3.3, 5	50~100	50~100	4	4	600	0.9	1	3.5	SMT	



STK-CTS/W & W1



STK-616xM (SOP16 series)



STK-616AMx (SOP10 series)



STK-PL/A



STK-PL/M & M2



STK-HD/P



STK-HD/K



STK-HO



STK-HO/2



STK-HO/4



STK-HA/A

◎ AC / 交流检测 (离网侧&电网侧)

Technology		Type	Out		Vcc (V)	I <sub>pn</sub> (A)	I <sub>pm</sub> (A)	U <sub>iso</sub> (kV)	U <sub>d</sub> (kV)	BW (kHz)	t <sub>r</sub> (μs)	X@I <sub>pn</sub> T <sub>a</sub> =25°C (%FS)	X <sub>TRange</sub> (%FS)	Connction	Application
Open-loop	Closed-loop		Voltage	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/M	o		5	300	600	4	4	300	0.6	0.8	1.1	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/D	o		±12~±15	25~100	55~175	4	4	150	0.5	0.5	1.5	THT	
o		STB-LA/Zx	o		5	100~200	300~450	4	4	300	0.3	0.8	1.1	THT	
o		STB-LA/Zx	o		5	250	450	4	4	200	3	1	1.4	THT	
o		STB-LA/DF	o		±12~±15	25~100	55~175	4	5	150	0.5	0.5	NA	THT	
o		STK-PL/AH1	o		5	10~50	25~125	5	4	400	1.5	1	2	THT	
o		STK-PL/M2	o		5	80~180	200~450	5	4	300	1.5	1	2	THT	
o		STK-HD/KA	o		5	20~50	50~100	4	4	600	1	0.8	1.5	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	
o		STK-PL/A	o		5	10~50	25~125	5	4	400	1.5	1	2	THT	
o		STK-PL/M	o		5	80~180	200~450	5	4	500	0.4	1	2	THT	
o		STK-PL/M2	o		5	80~180	200~450	5	4	300	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-CAB1500	o		12	600	NA	4	2.5	NA	NA	NA	0.5	Clamping	



◎ Residual/漏电流检测

Technology		Type	Out		Vcc (V)	I <sub>pn</sub> (A)	I <sub>pm</sub> (A)	U <sub>iso</sub> (kV)	U <sub>d</sub> (kV)	BW (kHz)	t <sub>r</sub> (μs)	X@I <sub>pn</sub> T <sub>a</sub> =25°C (%FS)	X <sub>TRange</sub> (%FS)	Connction	Application
Open-loop	Closed-loop		Voltage	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/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	



◎ Wind power / 风力发电

Technology			Type	Out			Vcc (V)	I <sub>pn</sub> (A)	I <sub>pm</sub> (A)	U <sub>iso</sub> (kV)	U <sub>d</sub> (kV)	BW (kHz)	t <sub>r</sub> (μs)	X@I <sub>pn</sub> T <sub>a</sub> =25°C (%FS)	X <sub>T</sub> Range (%FS)	Connction	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	Wind power	
o			STK-BS/T	o		±12 ~ ±15	200 ~ 1500	600 ~ 2500	4	4.9	25	5	1	1	THT		
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			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-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		

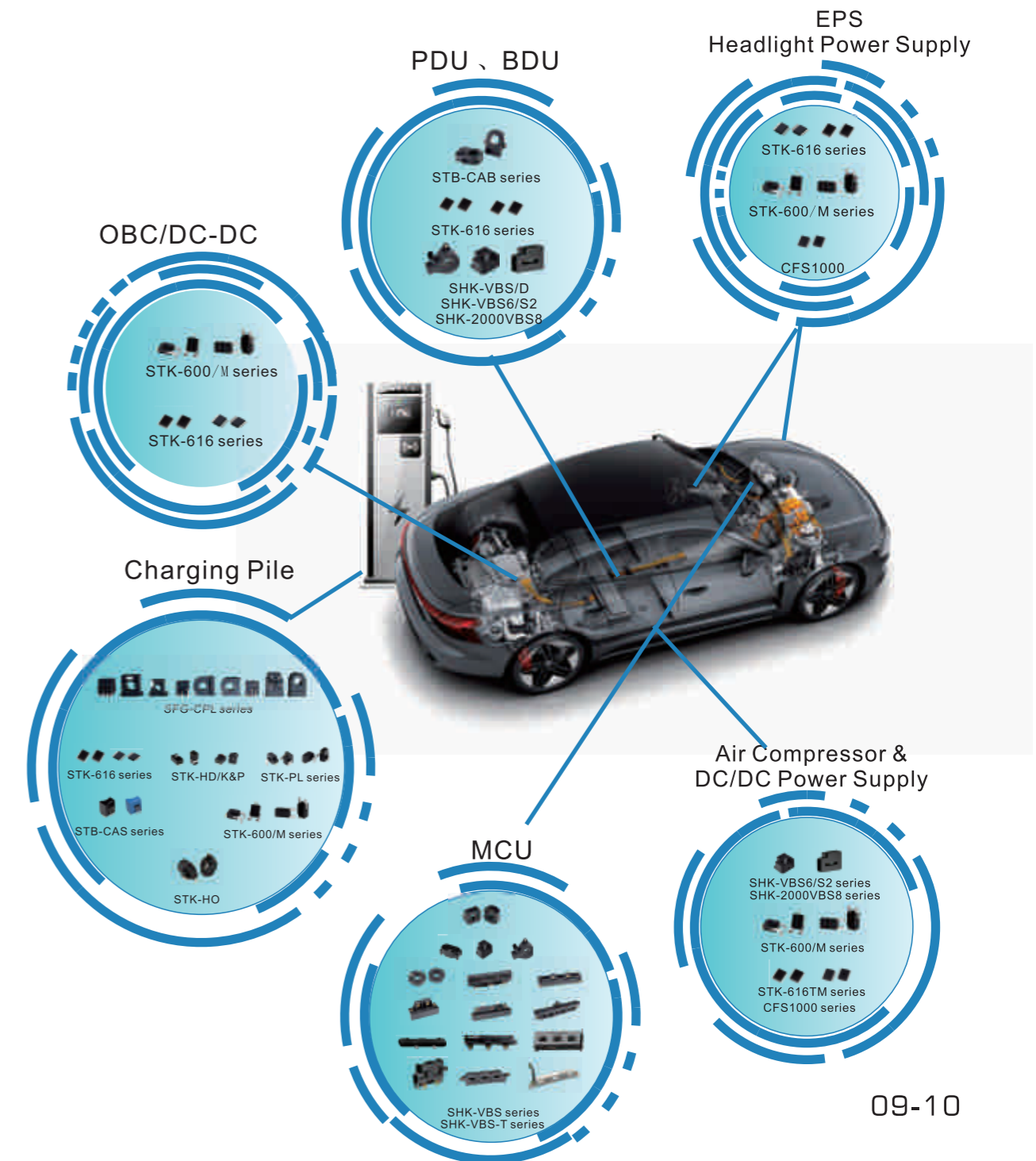


# 02

EV APPLICATION

新能源车应用

- AEC-Q100 Qualified
- ISO26262
- AEC-Q100 认证
- ISO26262
- Wide range of current detection
- Excellent EMC performance
- 电流检测范围宽
- 出色的电磁兼容性



◎ EPS & Headlight Power supply / 助力转向 & 大灯电源

Technology	Type	Out			Vcc (V)	I <sub>pn</sub> (A)	I <sub>pm</sub> (A)	U <sub>iso</sub> (kV)	U <sub>d</sub> (kV)	BW (kHz)	t <sub>r</sub> (μs)	X@I <sub>pn</sub> T <sub>a</sub> =25°C (%FS)	X <sub>TRange</sub> (%FS)	Connction	Application
		Voltage	Digital	Current											
o	STK-600-M-MPFF&MPSP	o	o	5, 3.3	50, 100	50 ~ 250	4	4	120	4.6	2.4	3.5	THT	EPS	
o	STK-600-M-PFF&PSF&PSS	o	o	5, 3.3	50, 100	50 ~ 400	4	4	120	4.6	2.4	3.5	THT		
o	STK-616ZMF	o	o	3.3, 5	10 ~ 65	10 ~ 65	4	3.6	2000	0.05	1.5	3.5	SMT		
o	STK-616YML	o	o	3.3, 5	20 ~ 50	20 ~ 50	4	2.1/2.4	400	1	1.5	3.5	SMT		
o	STK-616ZMF	o	o	3.3, 5	10 ~ 65	10 ~ 65	4	3.6	2000	0.05	1.5	3.5	SMT		
o	STK-616YML	o	o	3.3, 5	20 ~ 50	20 ~ 50	4	2.1/2.4	400	1	1.5	3.5	SMT		

◎ Charging Piles / 充电桩

Technology	Type	Out			Vcc (V)	I <sub>pn</sub> (A)	I <sub>pm</sub> (A)	U <sub>iso</sub> (kV)	U <sub>d</sub> (kV)	BW (kHz)	t <sub>r</sub> (μs)	X@I <sub>pn</sub> T <sub>a</sub> =25°C (%FS)	X <sub>TRange</sub> (%FS)	Connction	Application
		Voltage	Digital	Current											
o	STK-PL/A	o	o	5	10 ~ 50	25 ~ 125	5	4	400	1.5	1	2	THT	Charging piles	
o	STK-PL/M	o	o	5	80 ~ 180	200 ~ 450	5	4	500	0.4	1	2	THT		
o	STK-PL/M2	o	o	5	80 ~ 180	200 ~ 450	5	4	300	1.5	1	2	THT		
o	STK-HD/P	o	o	5, 3.3	5 ~ 30	12.5 ~ 75	4	4	600	1	1	3	THT		
o	STK-HD/K	o	o	5	20 ~ 50	50 ~ 100	4	4	600	1	0.8	1.5	THT		
o	STK-616BML	o	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	o	3.3, 5	6 ~ 25	14.5 ~ 75	4	3.6	600	0.9	1.5	3.5	SMT		
o	STK-616HML	o	o	3.3, 5	10 ~ 30	25 ~ 75	4	3.6	600	0.9	1.5	3.5	SMT		
o	STK-616KMF	o	o	3.3, 5	30 ~ 65	30 ~ 65	4	3.6	1500	0.2	1.5	3.5	SMT		
o	STK-616TML	o	o	3.3, 5	20 ~ 133	30 ~ 65	4	3.6	600	0.9	3.5	3.5	SMT		
o	STK-616TMF5	o	o	3.3, 5	10 ~ 133	10 ~ 133	4	3.6	1500	0.6	1.5	3.5	SMT		
o	STK-616TMM	o	o	3.3, 5	20 ~ 65	20 ~ 65	4	3.6	600	0.2	1.5	3.5	SMT		
o	STK-616TMW	o	o	3.3, 5	20 ~ 65	20 ~ 65	4	3.6	600	0.2	1.5	3.5	SMT		
o	STK-616TMWD	o	o	3.3, 5	20 ~ 65	1, 20 ~ 65	8	5	600	0.2	1.5	3.5	SMT		
o	SFG-CPL/A	o	o	5	0.3	NA	NA	3	NA	NA	NA	NA	THT		
o	SFG-CPL/A2	o	o	5	0.3	NA	NA	3	NA	NA	NA	NA	THT		
o	SFG-CPL/A2-A	o	o	5	0.3	NA	NA	3	NA	NA	NA	NA	THT		
o	SFG-CPL/A3	o	o	5	0.3	NA	NA	3	NA	NA	NA	NA	THT		
o	SFG-CPL/A4	o	o	5	0.3	NA	NA	3	NA	NA	NA	NA	THT		
o	SFG-CPL/A5	o	o	5	0.3	NA	NA	3	NA	NA	NA	NA	THT		
o	SFG-CPL/A6	o	o	5	0.3	NA	NA	3	NA	NA	NA	NA	THT		
o	SFG-CPL/B	o	o	5	0.3	NA	NA	3	NA	NA	NA	NA	THT		
o	SFG-CPL/B1	o	o	5	0.3	NA	NA	3	NA	NA	NA	NA	THT		
o	STK-HO/B	o	o	5	50 ~ 180	125 ~ 350	4	4	1000	0.2	1	3	THT		



◎ Air Compressor & DC/DC Power supply / 空气压缩机 & 直流-直流电源

Technology	Type	Out			Vcc (V)	I <sub>pn</sub> (A)	I <sub>pm</sub> (A)	U <sub>iso</sub> (kV)	U <sub>d</sub> (kV)	BW (kHz)	t <sub>r</sub> (μs)	X@I <sub>pn</sub> T <sub>a</sub> =25°C (%FS)	X <sub>TRange</sub> (%FS)	Connction	Application
		Voltage	Digital	Current											
o	SHK-VBS2-D	o	o	5	545	1090	4	4	NC	3.5	1.5	3	THT	Air Compressor & DC/DC Power supply	
o	SHK-VBS3-S2	o	o	5	400 ~ 900	400 ~ 900	5	4	100	3.5	2.25	3.5	THT		
o	SHK-VBS3-S4	o	o	5	400 ~ 900	400 ~ 900	4	4	100	3.5	1	3.5	THT		
o	SHK-VBS3-S5	o	o	5	400 ~ 900	400 ~ 900	4	4	100	3.5	1	3.5	THT		
o	SHK-VBS3-S6	o	o	5	400 ~ 900	400 ~ 900	4	4	100	3.5	1	3.5	THT		
o	SHK-VBS3-S9	o	o	5	1000 ~ 1600	1000 ~ 1600	2	3.6	40	2	3	5	THT		
o	SHK-VBS3-SA&SC	o	o	5	1000 ~ 1600	1000 ~ 1600	2	3.6	40	2	1.75	3	THT		
o	SHK-VBS3-SE&SF	o	o	5	1000 ~ 1600	1000 ~ 1600	2	3.6	40	2	1.75	3	THT		
o	STK-600-M-MPFF&MPSP	o	o	5, 3.3	50, 100	50 ~ 250	4	4	120	4.6	2.4	3.5	THT		
o	STK-600-M-PFF&PSF&PSS	o	o	5, 3.3	50, 100	50 ~ 400	4	4	120	4.6	2.4	3.5	THT		
o	STK-616BML	o	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	o	3.3, 5	6 ~ 25	14.5 ~ 75	4	3.6	600	0.9	1.5	3.5	SMT		
o	STK-616HML	o	o	3.3, 5	10 ~ 30	25 ~ 75	4	3.6	600	0.9	1.5	3.5	SMT		
o	STK-616KMF	o	o	3.3, 5	30 ~ 65	30 ~ 65	4	3.6	1500	0.2	1.5	3.5	SMT		
o	STK-616TML	o	o	3.3, 5	20 ~ 133	30 ~ 65	4	3.6	600	0.9	3.5	3.5	SMT		
o	STK-616TMF5	o	o	3.3, 5	10 ~ 133	10 ~ 133	4	3.6	1500	0.6	1.5	3.5	SMT		
o	STK-616TMM	o	o	3.3, 5	20 ~ 65	20 ~ 65	4	3.6	600	0.2	1.5	3.5	SMT		
o	STK-616TMW	o	o	3.3, 5	20 ~ 65	20 ~ 65	4	3.6	600	0.2	1.5	3.5	SMT		
o	STK-616TMWD	o	o	3.3, 5	20 ~ 65	1, 20 ~ 65	8	5	600	0.2	1.5	3.5	SMT		

◎ OBC, DC/DC & BMS / 车载充电机, 直流-直流 & 电池管理系统

Technology	Type	Out			Vcc (V)	I <sub>pn</sub> (A)	I <sub>pm</sub> (A)	U <sub>iso</sub> (kV)	U <sub>d</sub> (kV)	BW (kHz)	t <sub>r</sub> (μs)	X@I <sub>pn</sub> T <sub>a</sub> =25°C (%FS)	X <sub>TRange</sub> (%FS)	Connction	Application
		Voltage	Digital	Current											
o	STK-600-M-MPFF&MPSP	o	o	5, 3.3	50, 100	50 ~ 250	4	4	120	4.6	2.4	3.5	THT	OBC, DC/DC	
o	STK-600-M-PFF&PSF&PSS	o	o	5, 3.3	50, 100	50 ~ 400	4	4	120	4.6	2.4	3.5	THT		
o	STK-616AM3	o	o	3.3, 5	50 ~ 90	50 ~ 90	4	4	600	0.9	1	3.5	SMT		
o	STK-616AM5	o	o	3.3, 5	25 ~ 200	25 ~ 200	4	4	600	0.9	1.5	3.5	SMT		
o	STK-616AM8	o	o	3.3, 5	50 ~ 100	50 ~ 100	4	4	600	0.9	1	3.5	SMT		
o	STK-616BML	o	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	o	3.3, 5	6 ~ 25	14.5 ~ 75	4	3.6	600	0.9	1.5	3.5	SMT		
o	STK-616HML	o	o	3.3, 5	10 ~ 30	25 ~ 75	4	3.6	600	0.9	1.5	3.5	SMT		
o	STK-616KMF	o	o	3.3, 5	30 ~ 65	30 ~ 65	4	3.6	1500	0.2	1.5	3.5	SMT		
o	STK-616TML	o	o	3.3, 5	20 ~ 133	30 ~ 65	4	3.6	600	0.9	3.5	3.5	SMT		
o	STK-616TMF5	o	o	3.3, 5	10 ~ 133	10 ~ 133	4	3.6	1500	0.6	1.5	3.5	SMT		
o	STK-616TMM	o	o	3.3, 5	20 ~ 65	20 ~ 65	4	3.6	600	0.2	1.5	3.5	SMT		
o	STK-616TMW	o	o	3.3, 5	20 ~ 65	20 ~ 65	4	3.6	600	0.2	1.5	3.5	SMT		
o	STK-616TMWD	o	o	3.3, 5	20 ~ 65	1, 20 ~ 65	8	5	600	0.2	1.5	3.5	SMT		
o	STB-CAB500	o	o	12	500	NA	4	2.5	NA	NA	NA	0.5	Clamping		
o	STB-CAB540	o	o	12	540	NA	4	2.5	NA	NA	NA	0.5	Clamping		
o	STB-CAB600X-XXC	o	o	12	540	NA	4	2.5	NA	NA	NA	0.5	Clamping		
o	STB-CAB1500	o	o	12	600	NA	4	2.5	NA	NA	NA	0.5	Clamping		
o	SHK-VBS6-S2	o	o	5	100 ~ 1500	100 ~ 1500	4	4	40	2	2.25	3.25	THT		
o	SHK-VBS8	o	o	5	2000	2000	8	2.5	40	2	2.25	3.25	THT		





◎ Motor Controller / 电机控制器

Technology	Type	Out			Vcc (V)	I <sub>pn</sub> (A)	I <sub>pm</sub> (A)	U <sub>iso</sub> (kV)	U <sub>d</sub> (kV)	BW (kHz)	t <sub>r</sub> (μs)	X@I <sub>pn</sub> T <sub>a</sub> =25°C (%FS)	X <sub>TRange</sub> (%FS)	Connction	Application
		Voltage	Digital	Current											
o	SHK-VBS2-D	o		5	545	1090	4	4	NC	3.5	1.5	3	THT	Motor Controller	
o	SHK-VBS-D-A	o		5	75, 1000	NA	8	2.5	10	18	NA	3.3, 4.4	THT		
o	SHK-VBS-D-B	o		5	75, 500	NA	8	2.5	10	18	NA	3.3, 2.1	THT		
o	SHK-VBS-D-C	o		5	75, 750	NA	8	2.5	10	18	NA	3.3, 3	THT		
o	SHK-VBS-D-D	o		5	30, 350	NA	8	2.5	10	18	NA	3.3, 2.6	THT		
o	SHK-VBS-D-E	o		5	40, 400	NA	8	2.5	10	18	NA	3.7, 3.2	THT		
o	SHK-VBS3	o		5	100~900	100~900	5	4	100	3.5	2	3.5	THT		
o	SHK-VBS3-S2	o		5	400~900	400~900	5	4	100	3.5	2.25	3.5	THT		
o	SHK-VBS3-S4	o		5	400~900	400~900	4	4	100	3.5	1	3.5	THT		
o	SHK-VBS3-S5	o		5	400~900	400~900	4	4	100	3.5	1	3.5	THT		
o	SHK-VBS3-S6	o		5	400~900	400~900	4	4	100	3.5	1	3.5	THT		
o	SHK-VBS3-S9	o		5	1000~1600	1000~1600	2	3.6	40	2	3	5	THT		
o	SHK-VBS3-SA&SC	o		5	1000~1600	1000~1600	2	3.6	40	2	1.75	3	THT		
o	SHK-VBS3-SE&SF	o		5	1000~1600	1000~1600	2	3.6	40	2	1.75	3	THT		
o	SHK-VBS-A3-S2	o		5	1000~1600	1000~1600	4	2	40	2	2.75	4	THT		
o	SHK-VBS5	o		5	100~900	100~900	4	4	100	3.5	1	3	THT		
o	SHK-VBS6-S2	o		5	100~1500	100~1500	4	4	40	2	2.25	3.25	THT		
o	SHK-VBS8	o		5	2000	2000	8	2.5	40	2	2.25	3.25	THT		



SHK-VBS2/D



SHK-VBS-D-x



SHK-VBS3



SHK-VBS3/S2



SHK-VBS3/S4



SHK-VBS3/S5



SHK-VBS3/S6



SHK-VBS3/S9



SHK-VBS3-SA&SC



SHK-VBS3-SE&SF



SHK-VBS-A3-S2



SHK-VBS5



SHK-VBS6/S2



SHK-VBS8



SHK-VBS-T8-S8



SHK-VBS-TE-S5



SHK-VBS-TE-SA



SHK-VBS-TH-S3



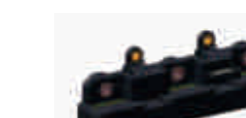
SHK-VBS-TH-S5



SHK-VBS-TL-S3



SHK-VBS-TL-S8



SHK-VBS-TM-S3



SHK-VBS-TM-S5



SHK-VBS-TM-S6

◎ Motor Controller / 电机控制器

Technology	Type	Out			Vcc (V)	I <sub>pn</sub> (A)	I <sub>pm</sub> (A)	U <sub>iso</sub> (kV)	U <sub>d</sub> (kV)	BW (kHz)	t <sub>r</sub> (μs)	X@I <sub>pn</sub> T <sub>a</sub> =25°C (%FS)	X <sub>TRange</sub> (%FS)	Connction	Application
		Voltage	Digital	Current											
o	SHK-VBS-T3	o		5	545	1090	4	4	100	3.5	2	2.5	Clamping	Motor Controller	
o	SHK-VBS-T3-S4	o		5	545	1090	4	4	100	3.5	2	2.5	Clamping		
o	SHK-VBS-T4	o		5	545	1090	4	4	120	3.5	2	2.5	Clamping		
o	SHK-VBS-T5-S2	o		5	300	300	4	4	40	2	2	3.5	Clamping		
o	SHK-VBS-T6	o		5	800~1200	800~1200	4	4	40	2	4.5	5.5	Clamping		
o	SHK-VBS-T6-S3	o		5	800~1200	800~1200	4	4	40	2	4.5	5.5	Clamping		
o	SHK-VBS-T6-S5	o		5	800~1200	800~1200	4	4	40	2	2	3.5	Clamping		
o	SHK-VBS-T7-S2	o		5	600~700	300~700	4	4	40	2~4	2	3.5	Clamping		
o	SHK-VBS-T8-S2	o		5	300~1200	300~1200	4	4	40	4	2	3.5	Clamping		
o	SHK-VBS-T8-S3	o		5	300~1200	300~1200	4	4	40	4	2	3.5	Clamping		
o	SHK-VBS-T8-S5	o		5	1000	1000	4	4	40	2	2	3.5	Clamping		
o	SHK-VBS-T8-S6	o		5	600	600	4	4	40	2	1.5	3.5	Clamping		
o	SHK-VBS-T8-S7	o		5	300~1200	300~1200	4	4	40	2	1.5	3	Clamping		
o	SHK-VBS-T8-S8	o		5	600~1100	600~1100	4	4	40	2	1.5	3	Clamping		
o	SHK-VBS-T9	o		5	600~1100	600~1100	4	4	40	2	NA	NA	Clamping		
o	SHK-VBS-TA-S2	o		5	600~700	600~700	8	2.5	40	2~4	1.5	3.75	Clamping		
o	SHK-VBS-TB-S2	o		5	250	250	8	2.5	40	2	3.15	0.75	Clamping		
o	SHK-VBS-TE-S2	o		5	100~200	100~200	4	1.5	40	4	1	2	Clamping		
o	SHK-VBS-TE-S5	o		5	800, 1200	800, 1200	2	2.5	40	2	2.75	1.5	Clamping		
o	SHK-VBS-TE-SA	o		5	1100	1100	2	2.5	40	2	2	3	Clamping		
o	SHK-VBS-TH-S2	o		5	660~1100	660~1100	2	2.5	40	2	1	3.5	Clamping		
o	SHK-VBS-TH-S3	o		5	900~1000	900~1000	8	2.8	40	2	1	3.5	Clamping		
o	SHK-VBS-TH-S5	o		5	700~900	700~900	8	2.8	40	2	1	3.5	Clamping		
o	SHK-VBS-TL-S2	o		5	800~1200	800~1200	8	2.8	40	2~4	2.75	3.5	Clamping		
o	SHK-VBS-TL-S3	o		5	1200	1200	8	2.8	40	2~4	2	3.5	Clamping		
o	SHK-VBS-TL-S8	o		5	800~1200	800~1200	8	2.8	40	2~4	1.75	3	Clamping		
o	SHK-VBS-TM-S2	o		5	600~1000	600~1000	8	2.8	40	2~4	4.5	5.5	Clamping		
o	SHK-VBS-TM-S3	o		5	600~1000	600~1000	8	2.8	40	2~4	4.5	5.5	Clamping		
o	SHK-VBS-TM-S5	o		5	900~1200	900~1200	8	2.8	40	2~4	2	3.5	Clamping		
o	SHK-VBS-TM-S6	o		5	900~1200	900~1200	8	2.8	40	2~4	2	3.5	Clamping		



SHK-VBS-T3



SHK-VBS3-T4



SHK-VBS-T5-S2



SHK-VBS3-T6



SHK-VBS-T7-S2



SHK-VBS-T8-S2



SHK-VBS-T9



SHK-VBS-TA-S2



SHK-VBS-TB-S2



SHK-VBS-TE-S2



SHK-VBS-TH-S2



SHK-VBS-TL-S2



SHK-VBS-TM-S2



SHK-VBS-T3-S4



SHK-VBS-T6-S3



SHK-VBS-T6-S5



SHK-VBS-T8-S3



SHK-VBS-T8-S5



SHK-VBS-T8-S6



SHK-VBS-T8-S7

## DRIVER APPLICATION

# 03

驱动应用

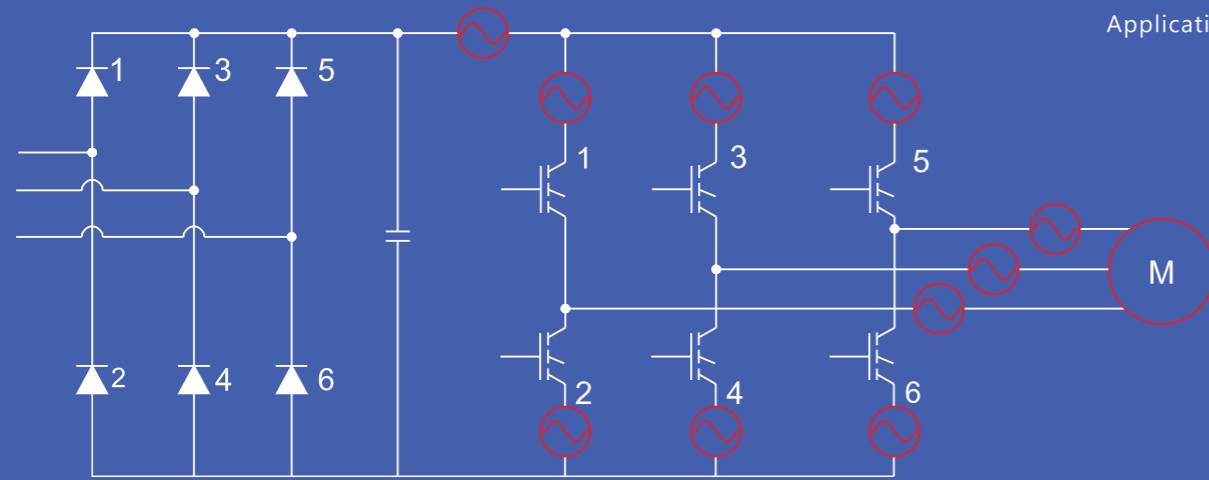
- High accuracy
- Wide current detection range
- Low noise
- Fast response time

高精度

电流检测范围宽

低噪音

响应时间快



Application Schematics

mounting position

## ◎ Variable frequency drives / 变频驱动

Technology	Type	Out		Vcc (V)	I <sub>pn</sub> (A)	I <sub>pm</sub> (A)	U <sub>iso</sub> (kV)	U <sub>d</sub> (kV)	BW (kHz)	t <sub>r</sub> (μs)	X@I <sub>pn</sub> T <sub>a</sub> =25°C (%FS)	X <sub>T</sub> Range (%FS)	Connction	Application
		Voltage	Current											
o	STB-CAS/x	o		5	15~75	51~220	4	5	400	0.3	0.8	2.5	THT	Variable frequency drive
o	STB-CAS/F	o		5	6~75	20~220	4	5	400	0.3	0.8	1.4	THT	
o	STK-616AM3	o		3.3, 5	50~90	50~90	4	4	600	0.9	1	3.5	SMT	
o	STK-616AM5	o		3.3, 5	25~200	25~200	4	4	600	0.9	1.5	3.5	SMT	
o	STK-616AM8	o		3.3, 5	50~100	50~100	4	4	600	0.9	1	3.5	SMT	
o	STK-616KMF	o		3.3, 5	30~65	30~65	4	3.6	1500	0.2	1.5	3.5	SMT	
o	STK-616TML	o		3.3, 5	20~133	30~65	4	3.6	600	0.9	3.5	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-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	
o	STB-HA/A	o		±15	10~60	30~180	4	4	150	1.5	0.8	0.8	THT	
o	SHK-VBS6-S2	o		5	100~1500	100~1500	4	4	40	2	2.25	3.25	THT	
o	STK-600/M-MPFF&MPSP	o		5, 3.3	50, 100	50~250	4	4	120	4.6	2.4	3.5	THT	
o	STK-600/M-PFF&PSF&PSS	o		5, 3.3	50, 100	50~400	4	4	120	4.6	2.4	3.5	THT	
o	STB-LA	o		±12~±15	50~150	200~240	4	4	150	0.5	0.5	0.5	THT	
o	STB-LA/Zx	o		5	100~200	300~450	4	4	300	0.3	0.8	1.1	THT	
o	STB-LA/Zx	o		5	250	450	4	4	200	3	1	1.4	THT	
o	STK-HO/B	o		5	50~180	125~350	4	4	1000	0.2	1	3	THT	

## ◎ Servo-drive / 伺服驱动

Technology	Type	Out		Vcc (V)	I <sub>pn</sub> (A)	I <sub>pm</sub> (A)	U <sub>iso</sub> (kV)	U <sub>d</sub> (kV)	BW (kHz)	t <sub>r</sub> (μs)	X@I <sub>pn</sub> T <sub>a</sub> =25°C (%FS)	X <sub>T</sub> Range (%FS)	Connction	Application
		Voltage	Current											
o	STB-CAS/x	o		5	15~75	51~220	4	5	400	0.3	0.8	2.5	THT	Servo Drive
o	STB-CAS/F	o		5	6~75	20~220	4	5	400	0.3	0.8	1.4	THT	
o	STK-616KMF	o		3.3, 5	30~65	30~65	4	3.6	1500	0.2	1.5	3.5	SMT	
o	STK-616TML	o		3.3, 5	20~133	30~65	4	3.6	600	0.9	3.5	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-HD/P	o		5, 3.3	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	o		5	10~50	25~125	5	4	400	1.5	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/M	o		5	80~180	200~450	5	4	500	0.4	1	2	THT	
o	STK-PL/M2	o		5	80~180	200~450	5	4	300	1.5	1	2	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	



◎ Variable frequency drives / 变频驱动

Technology			Type	Out			Vcc (V)	I <sub>pn</sub> (A)	I <sub>pm</sub> (A)	U <sub>iso</sub> (kV)	U <sub>d</sub> (kV)	BW (kHz)	t <sub>r</sub> (μs)	X@I <sub>pn</sub> T <sub>a</sub> =25°C (%FS)	X <sub>T</sub> Range (%FS)	Connction	Application
Open-loop	Closed-loop	Fluxgate		Voltage	Digital	Current											
o			STK-BS1	o		±15	100~600	300~900	4	4	50~150	2~7	1	2	THT	Variable frequency drive	
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/T	o		±12~±15	200~1500	600~2500	4	4.9	25	5	1	1	THT		
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			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-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/H4



STK-BS/T



STK-BS/X



STK-BS/X2



STK-BS/X4



STK-BS/X5



STB-LF



STB-LF2



STB-LF/2



STB-LA



STB-LA/Zx



STB-250LA/Zx



STB-LF/3



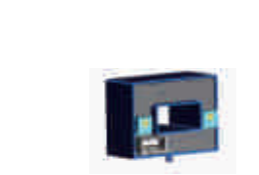
STB-LF4



STB-LF4-A



STK-BS1



STK-BS2



STK-BS6



STB-LF4-B



STB-LF5



STB-LF5-B



STK-BS9



STK-BS10



STK-BS/S1



STB-LF5-S



STB-LF6



STB-LF7



STK-BS/S2



STK-BS/S3



STK-BS/H



STB-LF8



STB-LF9

# 04

## UPS APPLICATION(Uninterruptible Power Supply)

不间断电源应用

- High precision
- Wide frequency bandwidth
- Fast response time
- Wide detection range

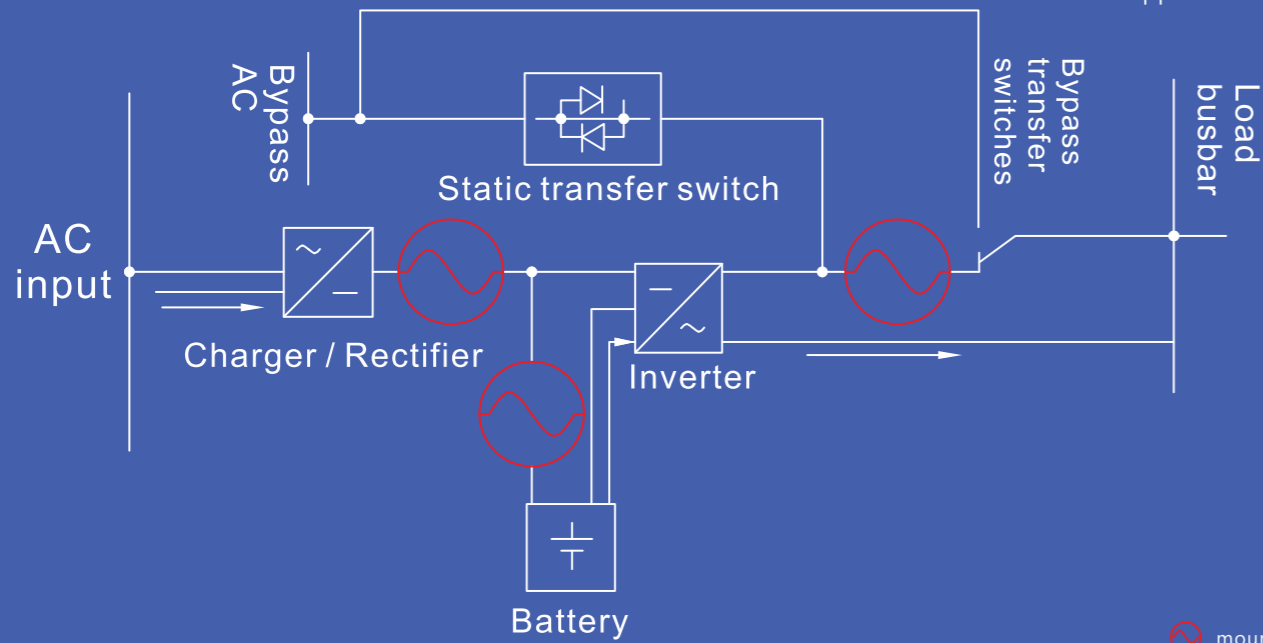
精度高

快速响应时间

频率带宽较宽

检测范围广

Application Schematics



mounting position



## ◎ UPS(Uninterruptible Power Supply) / 不间断电源

Technology	Type	Out		Vcc (V)	I <sub>pn</sub> (A)	I <sub>pm</sub> (A)	U <sub>iso</sub> (kV)	U <sub>d</sub> (kV)	BW (kHz)	t <sub>r</sub> (μs)	X@I <sub>lv</sub> T <sub>a</sub> =25°C (%FS)	X <sub>TR</sub> Range (%FS)	Connction	Application
		Voltage	Current											
o	STK-600/M-MPFF&MPSF	o		5, 3.3	50, 100	50 ~ 250	4	4	120	4.6	2.4	3.5	THT	Uninterruptible Power Supply (UPS)
o	STK-600-M-PFF&PSF&PSS	o		5, 3.3	50, 100	50 ~ 400	4	4	120	4.6	2.4	3.5	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/T	o		±12 ~ ±15	200 ~ 1500	600 ~ 2500	4	4.9	25	5	1	1	THT	
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-HD/P	o		5, 3.3	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-HO	o		5	60 ~ 150	150 ~ 375	4	4	200	2	1.5	3	THT	
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/B	o		5	50 ~ 180	125 ~ 350	4	4	1000	0.2	1	3	THT	
o	STK-PL	o		5	10 ~ 50	25 ~ 125	5	4	400	1.5	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/M	o		5	80 ~ 180	200 ~ 450	5	4	500	0.4	1	2	THT	
o	STK-PL/M2	o		5	80 ~ 180	200 ~ 450	5	4	300	1.5	1	2	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	



◎ UPS(Uninterruptible Power Supply) / 不间断电源

Technology		Type	Out		Vcc (V)	I <sub>pn</sub> (A)	I <sub>pm</sub> (A)	U <sub>iso</sub> (kV)	U <sub>d</sub> (kV)	BW (kHz)	t <sub>r</sub> (μs)	X@I <sub>pn</sub> T <sub>a</sub> =25°C (%FS)	X <sub>T</sub> Range (%FS)	Connction	Application
Open-loop	Closed-loop		Voltage	Current											
o		STB-CAS/x	o		5	15~75	51~220	4	5	400	0.3	0.8	2.5	THT	Uninterruptible Power Supply (UPS)
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	o	5	25	50.1	4	8	200	1	0.5	0.5	THT	
o		STB-HA	o		±15	3~40	9~120	4	4	150	1.5	0.8	0.8	THT	
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-LA	o	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/M	o		5	300	600	4	4	300	0.6	0.8	1.1	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/D	o	o	±12~±15	25~100	55~175	4	4	150	0.5	0.5	1.5	THT	
o		STB-LA/Zx	o		5	100~200	300~450	4	4	300	0.3	0.8	1.1	THT	
o		STB-LA/Zx	o		5	250	450	4	4	200	3	1	1.4	THT	
o		STB-LA/DF	o	o	±12~±15	25~100	55~175	4	5	150	0.5	0.5	NA	THT	
o		STK-LBS/GG	o		5	100~1000	100~1000	4	0.5	250	3	1	3.5	DIP	
o		STK-LBS/S	o		3.3	200	200	4	1	250	3	1	2	SMT	
o		STK-LBS/S2	o		5	400~800	400~800	4	1	250	3	1.5	3.5	SMT	
o		STB-LF	o	o	±12~±15	100~200	200~420	4	4	100	0.5	0.3	0.2	Clamping	
o		STB-LF2	o	o	±12~±15	200~300	500~600	4	5	100	1	0.3	0.3	Clamping	
o		STB-LF/2	o	o	±15~±18	500	800	4	4.95	100	0.5	0.4	0.4	Clamping	
o		STB-LF/3	o	o	±15	366	950	4	3	100	1	0.42	0.42	Clamping	
o		STB-LF4	o	o	±12~±20	300	500	4	3.8	100	1	0.5	0.5	Clamping	
o		STB-LF4-A	o	o	±24	300	860	4	3.8	100	1	0.47	0.47	Clamping	
o		STB-LF4-B	o	o	±12~±20	300	500	4	3.8	100	1	0.47	0.47	Clamping	
o		STB-LF5	o	o	±15~±24	500	800	4	3.8	200	0.5	0.5	0.6	Clamping	
o		STB-LF5-B	o	o	±15~±24	500	800	4	4	200	1	0.6	0.6	Clamping	
o		STB-LF5-S	o	o	±24	622	1700	4	3	100	1	0.6	0.6	Clamping	
o		STB-LF6	o	o	±15~±24	1000	1500	4	3.8	200	0.5	0.4	0.4	Clamping	
o		STB-LF7	o	o	±15	180	540	4	2.5	100	1	1.2	1.2	Clamping	
o		STB-LF8	o	o	±15	88	240	4	2.5	100	1	1.2	1.2	Clamping	
o		STB-LF9	o	o	±15~±20	300	700	3	3	100	1	0.3	0.36	Clamping	



# 05

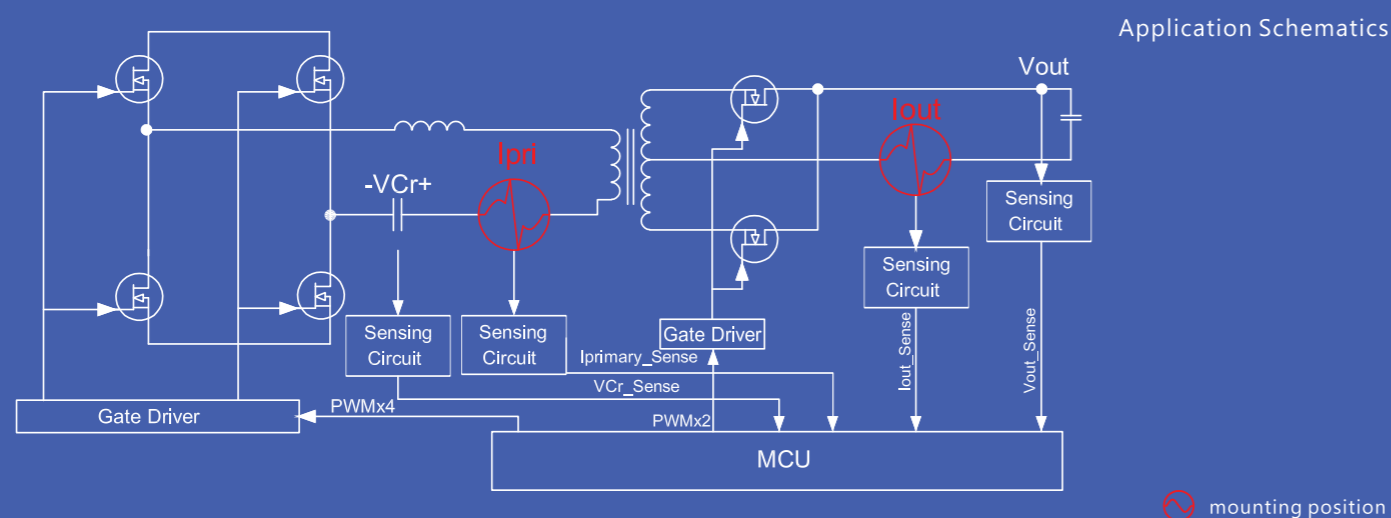
## HFCT APPLICATION

### 高频应用

- Very high frequency band width, 2 MHz
- Very fast response time, 50 ns
- Coreless design enables the small dimensions
- OCD (over current detection) function available
- Common-mode field rejection. (core-less design)

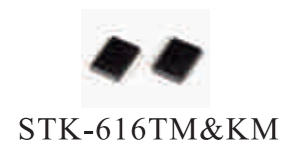


频带宽度高达2MHz  
响应时间在50ns以内  
无磁芯设计，尺寸小  
具有OCD（过流检测）功能  
共模场抑制（无芯设计）



### High Frequency / 高频应用

Technology	Type	Out			Vcc (V)	I <sub>pn</sub> (A)	I <sub>pm</sub> (A)	U <sub>ESD</sub> (kV)	U <sub>d</sub> (kV)	BW (kHz)	t <sub>r</sub> (μs)	X@I <sub>pn</sub> T <sub>a</sub> =25°C (%FS)	X <sub>TR</sub> Range (%FS)	Connction	Application
		Open-loop	Closed-loop	Fluxgate											
o	STK-616TMF5	o			3.3, 5	10 ~ 133	10 ~ 133	4	3.6	1500	0.6	1.5	3.5	SMT	High Frequency
o	STK-616ZMF	o			3.3, 5	10 ~ 65	10 ~ 65	4	3.6	2000	0.05	1.5	3.5	SMT	
o	STK-616KMF	o			3.3, 5	30 ~ 65	30 ~ 65	4	3.6	1500	0.2	1.5	3.5	SMT	
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/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-HO/B	o			5	50 ~ 180	125 ~ 350	4	4	1000	0.2	1	3	THT	
o	STB-LF	o			±12 ~ ±15	100 ~ 200	200 ~ 420	4	4	1000	0.5	0.3	0.2	Clamping	



# 06

## CORELESS SOLUTION

### 无磁芯方案

#### ◎ Features

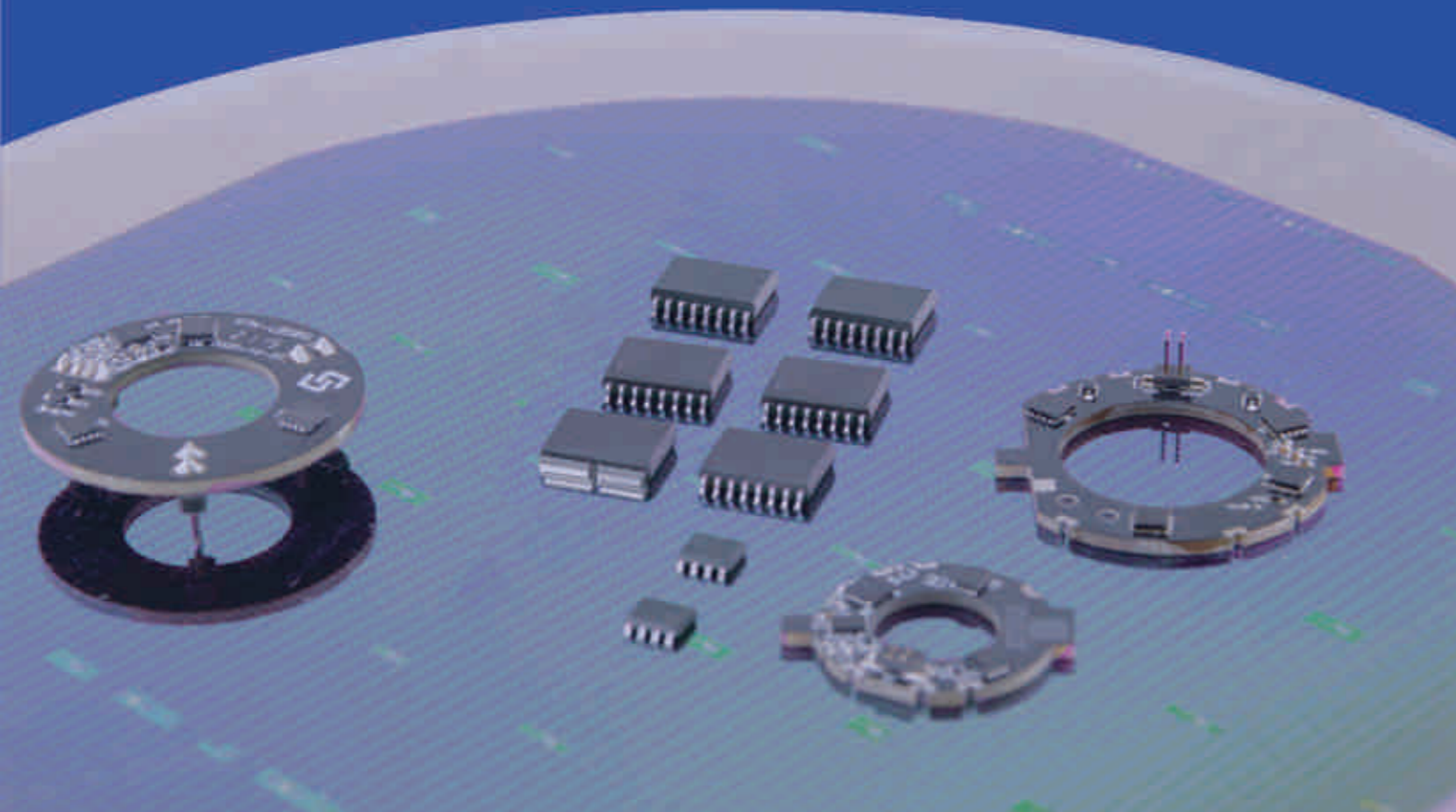
- Frequency band width of up to 150 ~ 2000 kHz
- Response time of down to 0.05 ~ 1.5  $\mu$ s
- Open loop design
- Coreless design enables the small dimensions
- Differential magnetic field detection design supports the common-mode field rejection.
- OCD (over current detection) function available
- Support supply voltage of 3.3 V or 5.0 V

频带宽度高达 150~2000 kHz  
 响应时间可达 0.05~1.5  $\mu$ s  
 开环设计  
 无芯设计实现了最小尺寸  
 不同的磁场检测设计支持共模场抑制  
 具有 OCD (过流检测) 功能  
 支持 3.3 伏或 5.0 伏电源电压

#### ◎ Application

- Solar energy
- Motor driver
- Uninterruptible power supply
- Switching Mode Power supply
- EV charger
- EV OBC
- EV DC/DC

太阳能  
 电机驱动器  
 不间断电源  
 开关模式电源  
 电动车充电器  
 车载充电机  
 电动车直流-直流检测



#### ◎ Coreless Solution / 无磁芯方案

Type	Partnumber	Normal Current	Supply Voltage	Sensitivity	Frequency Bandwidth -3dB	Step Response time	Clearance	X_TRange (%FS)	Open-loop	Closed-loop	Fluxgate
		I <sub>pm</sub> (A)	V <sub>cc</sub> (A)	Gain (mV/A, mA/A)	f <sub>band</sub> (kHz)	t <sub>r</sub> (us)	d <sub>CI</sub> (mm)	Acc (%FS)	Technology		
STK-LBS/S	STK-200LBS/S	±200	3.3	6	250	3	1	2	○		
STK-LBS/S2	STK-400LBS/S2	±400	5	5	250	3	1	3.5	○		
	STK-500LBS/S2	±500	5	4	250	3	1	3.5	○		
	STK-600LBS/S2	±600	5	3.33	250	3	1	3.5	○		
	STK-800LBS/S2	±800	5	2.5	250	3	1	3.5	○		
STK-LBS/6G	STK-100LBS/6G	±100	5	20	250	3	0.5	3.5	○		
	STK-200LBS/6G	±200	5	10	250	3	0.5	3.5	○		
	STK-300LBS/6G	±300	5	6.66	250	3	0.5	3.5	○		
	STK-400LBS/6G	±400	5	5	250	3	0.5	3.5	○		
	STK-500LBS/6G	±500	5	4	250	3	0.5	3.5	○		
	STK-600LBS/6G	±600	5	3.33	250	3	0.5	3.5	○		
	STK-700LBS/6G	±700	5	2.85	250	3	0.5	3.5	○		
	STK-800LBS/6G	±800	5	2.5	250	3	0.5	3.5	○		
	STK-900LBS/6G	±900	5	2.22	250	3	0.5	3.5	○		
	STK-1000LBS/6G	±1000	5	2	250	3	0.5	3.5	○		

#### ◎ Coreless Solution / 无磁芯方案

Type	Partnumber	Normal Current	Supply Voltage	Sensitivity	Frequency Bandwidth -3dB	Step Response time	Clearance	OCD Function	Trigger Delay	Trigger Holding	X_TRange (%FS)	PRODUCT PACKAGE
		I <sub>pn</sub> (A)	V <sub>cc</sub> (A)	Gain (mV/A, mA/A)	f <sub>band</sub> (kHz)	t <sub>r</sub> (us)	d <sub>CI</sub> (mm)	OCD	t <sub>mask</sub> (mm)	t <sub>hold</sub> (mm)	Acc (%FS)	
STK-616AM3	STK-616A-50ML3B5	±50	5	40	600	0.9	8.5	YES	0-3	0-4.5	3.5	SOIC10
	STK-616A-50ML3B3	±50	3.3	26.4	600	0.9	8.5	YES	0-3	0-4.5	3.5	Like
	STK-616A-66ML3B5	±66	5	30	600	0.9	8.5	YES	0-3	0-4.5	3.5	10.9 ×
	STK-616A-90ML3B5	±90	5	22.2	600	0.9	8.5	YES	0-3	0-4.5	3.5	12.7 mm
STK-616AM5	STK-616A-25ML5B5	±25	5	80	600	0.9	8.5	YES	0-3	0-4.5	3.5	SOIC10 Like 10.9 × 12.7 mm
	STK-616A-50ML5B5	±50	5	40	600	0.9	8.5	YES	0-3	0-4.5	3.5	
	STK-616A-60ML5B5	±60	5	33.3	600	0.9	8.5	YES	0-3	0-4.5	3.5	
	STK-616A-80ML5B5	±80	5	25	600	0.9	8.5	YES	0-3	0-4.5	3.5	
	STK-616A-100ML5B5	±100	5	20	600	0.9	8.5	YES	0-3	0-4.5	3.5	
	STK-616A-120ML5B5	±120	5	15	600	0.9	8.5	YES	0-3	0-4.5	3.5	
	STK-616A-200ML5B5	±200	5	10	600	0.9	8.5	YES	0-3	0-4.5	3.5	
	STK-616A-25ML5B3	±25	3.3	52.8	600	0.9	8.5	YES	0-3	0-4.5	3.5	
	STK-616A-50ML5B3	±50	3.3	26.4	600	0.9	8.5	YES	0-3	0-4.5	3.5	
	STK-616A-55ML5B3	±55	3.3	24	600	0.9	8.5	YES	0-3	0-4.5	3.5	
	STK-616A-60ML5B3	±60	3.3	33.3	600	0.9	8.5	YES	0-3	0-4.5	3.5	
	STK-616A-80ML5B3	±80	3.3	16.5	600	0.9	8.5	YES	0-3	0-4.5	3.5	
	STK-616A-100ML5B3	±100	3.3	13.2	600	0.9	8.5	YES	0-3	0-4.5	3.5	
STK-616A-50ML5U5	±50	5	80	600	0.9	8.5	YES	0-3	0-4.5	3.5		
STK-616A-100ML5U3	±100	3.3	26.4	600	0.9	8.5	YES	0-3	0-4.5	3.5		
STK-616AM8	STK-616A-50ML8B5	±50	5	40	600	0.9	8.5	YES	0-3	0-4.5	3.5	SOIC10
	STK-616A-90ML8B5	±90	5	22.2	600	0.9	8.5	YES	0-3	0-4.5	3.5	Like
	STK-616A-100ML8B5	±100	5	20	600	0.9	8.5	YES	0-3	0-4.5	3.5	10.9 ×
	STK-616A-50ML8B3	±50	3.3	26.4	600	0.9	8.5	YES	0-3	0-4.5	3.5	12.7 mm
STK-616BML	STK-616B-6.5MLB5	±6.5	5	200	600	0.9	8	YES	0-3	0-4.5	3.5	SOIC16W Like 10.3 × 10.3 mm
	STK-616B-13MLB5	±13	5	100	600	0.9	8	YES	0-3	0-4.5	3.5	
	STK-616B-15MLB5	±15	5	90	600	0.9	8	YES	0-3	0-4.5	3.5	
	STK-616B-28MLB5	±28	5	48	600	0.9	8	YES	0-3	0-4.5	3.5	
	STK-616B-56MLB5	±56	5	24	600	0.9	8	YES	0-3	0-4.5	3.5	
	STK-616B-65MLB5	±65	5	20.5	600	0.9	8	YES	0-3	0-4.5	3.5	

◎ Coreless Solution / 无磁芯方案

Type	Partnumeber	Normal Current	Supply Voltage	Sensitivity	Frequency Bandwidth -3dB	Step Response time	Clearance	OCD Function	Trigger Delay	Trigger Holding	X_TRange (%FS)	PRODUCT PACKAGE
		I <sub>pn</sub> (A)	V <sub>cc</sub> (A)	Gain (mV/A' mA/A)	f <sub>band</sub> (kHz)	t <sub>r</sub> (us)	d <sub>CI</sub> (mm)	OCD	t <sub>mask</sub> (mm)	t <sub>hold</sub> (mm)	Acc (%FS)	
STK-616DML	STK-616D-12MLB3	±12.5	3.3	37	600	0.9	7.5	YES	0-3	0-4.5	3.5	SOIC16W Like 10.3 × 10.3 mm
	STK-616D-20MLB3	±20	3.3	25	600	0.9	7.5	YES	0-3	0-4.5	3.5	
	STK-616D-25MLB3	±25	3.3	18.5	600	0.9	7.5	YES	0-3	0-4.5	3.5	
	STK-616D-6MLB5	±6	5	151	600	0.9	7.5	YES	0-3	0-4.5	3.5	
	STK-616D-12MLB5	±12.5	5	56	600	0.9	7.5	YES	0-3	0-4.5	3.5	
STK-616HML	STK-616H-10MLB5	±10	5	80	600	0.9	8	YES	0-3	0-4.5	3.5	SOIC16W Like 10.3 × 10.3 mm
	STK-616H-15MLB5	±15	5	53.33	600	0.9	8	YES	0-3	0-4.5	3.5	
	STK-616H-20MLB5	±20	5	40	600	0.9	8	YES	0-3	0-4.5	3.5	
	STK-616H-30MLB5	±30	5	26.67	600	0.9	8	YES	0-3	0-4.5	3.5	
STK-616KMF	STK-616K-30MFB5	±30	5	66.6	1500	0.2	7.5	YES	0-3	0-4.5	3	SOIC16W Like 10.3 × 10.3 mm
	STK-616K-40MFB3	±40	3.3	33	1500	0.2	7.5	YES	0-3	0-4.5	3	
	STK-616K-65MFB3	±65	3.3	20.3	1500	0.2	7.5	YES	0-3	0-4.5	3	
	STK-616K-40MFB5	±40	5	50	1500	0.2	7.5	YES	0-3	0-4.5	3	
STK-616TML	STK-616T-20MLB5	±20	5	100	600	0.9	8	YES	0-3	0-4.5	3.5	SOIC16W Like 10.3 × 10.3 mm
	STK-616T-30MLB5	±30	5	66	600	0.9	8	YES	0-3	0-4.5	3.5	
	STK-616T-40MLB5	±40	5	50	600	0.9	8	YES	0-3	0-4.5	3.5	
	STK-616T-50MLB5	±50	5	40	600	0.9	8	YES	0-3	0-4.5	3.5	
	STK-616T-65MLB5	±65	5	30.8	600	0.9	8	YES	0-3	0-4.5	3.5	
	STK-616T-75MLB5	±75	5	26.7	600	0.9	8	YES	0-3	0-4.5	3.5	
	STK-616T-100MLB5	±100	5	20	600	0.9	8	YES	0-3	0-4.5	3.5	
	STK-616T-133MLB5	±133	5	15	600	0.9	8	YES	0-3	0-4.5	3.5	
	STK-616T-10MLB3	±10	3.3	132	600	0.9	8	YES	0-3	0-4.5	3.5	
	STK-616T-20MLB3	±20	3.3	66	600	0.9	8	YES	0-3	0-4.5	3.5	
	STK-616T-30MLB3	±30	3.3	44	600	0.9	8	YES	0-3	0-4.5	3.5	
	STK-616T-33MLB3	±33	3.3	39.6	600	0.9	8	YES	0-3	0-4.5	3.5	
	STK-616T-40MLB3	±40	3.3	33	600	0.9	8	YES	0-3	0-4.5	3.5	
STK-616T-65MLB3	±65	3.3	20.3	600	0.9	8	YES	0-3	0-4.5	3.5		
STK-616TMF5	STK-616T-10MFB5	±10	5	200	1500	0.6	8	YES	0-3	0-4.5	3.5	SOIC16W Like 10.3 × 10.3 mm
	STK-616T-20MFB5	±20	5	100	1500	0.6	8	YES	0-3	0-4.5	3.5	
	STK-616T-40MFB5	±40	5	50	1500	0.6	8	YES	0-3	0-4.5	3.5	
	STK-616T-50MFB5	±50	5	40	1500	0.6	8	YES	0-3	0-4.5	3.5	
	STK-616T-65MFB5	±65	5	30.8	1500	0.6	8	YES	0-3	0-4.5	3.5	
	STK-616T-100MFB5	±100	5	20	1500	0.6	8	YES	0-3	0-4.5	3.5	
	STK-616T-133MFB5	±133	5	15	1500	0.6	8	YES	0-3	0-4.5	3.5	
	STK-616T-10MFB3	±10	3.3	132	1500	0.6	8	YES	0-3	0-4.5	3.5	
	STK-616T-20MFB3	±20	3.3	66	1500	0.6	8	YES	0-3	0-4.5	3.5	
	STK-616T-40MFB3	±40	3.3	33	1500	0.6	8	YES	0-3	0-4.5	3.5	
STK-616TMM	STK-616T-40MWB5	±40	5	50	600	0.2	8	YES	0-3	0-4.5	3.5	SOIC16W Like 10.3 × 10.3 mm
	STK-616T-65MWB5	±65	5	30.8	600	0.2	8	YES	0-3	0-4.5	3.5	
	STK-616T-20MWB3	±20	3.3	66	600	0.2	8	YES	0-3	0-4.5	3.5	
	STK-616T-40MWB3	±40	3.3	33	600	0.2	8	YES	0-3	0-4.5	3.5	
	STK-616T-65MWB3	±65	3.3	20.3	600	0.2	8	YES	0-3	0-4.5	3.5	
STK-616TMW	STK-616T-20MWB5	±20	5	100	600	0.2	8	YES	0-3	0-4.5	3.5	SOIC16W Like 10.3 × 10.3 mm
	STK-616T-40MWB5	±2A	5	1000	600	0.2	8	YES	0-3	0-4.5	3.5	
	STK-616T-40MWB5	±40	5	50	600	0.2	8	YES	0-3	0-4.5	3.5	
	STK-616T-40MWB5	±4A	5	500	600	0.2	8	YES	0-3	0-4.5	3.5	
	STK-616T-65MWB5	±65	5	30.8	600	0.2	8	YES	0-3	0-4.5	3.5	
	STK-616T-65MWB5	±6.5	5	308	600	0.2	8	YES	0-3	0-4.5	3.5	
	STK-616T-20MWB3	±20	3.3	66	600	0.2	8	YES	0-3	0-4.5	3.5	
	STK-616T-20MWB3	±2	3.3	660	600	0.2	8	YES	0-3	0-4.5	3.5	
STK-616T-40MWB3	STK-616T-40MWB3	±40	3.3	33	600	0.2	8	YES	0-3	0-4.5	3.5	
	STK-616T-40MWB3	±4	3.3	330	600	0.2	8	YES	0-3	0-4.5	3.5	
	STK-616T-40MWB3	±65	3.3	20.3	600	0.2	8	YES	0-3	0-4.5	3.5	
	STK-616T-40MWB3	±6.5	3.3	203	600	0.2	8	YES	0-3	0-4.5	3.5	

◎ Coreless Solution / 无磁芯方案

Type	Partnumeber	Normal Current	Supply Voltage	Sensitivity	Frequency Bandwidth -3dB	Step Response time	Clearance	OCD Function	Trigger Delay	Trigger Holding	X_TRange (%FS)	PRODUCT PACKAGE
		I <sub>pn</sub> (A)	V <sub>cc</sub> (A)	Gain (mV/A' mA/A)	f <sub>band</sub> (kHz)	t <sub>r</sub> (us)	d <sub>CI</sub> (mm)	OCD	t <sub>mask</sub> (mm)	t <sub>hold</sub> (mm)	Acc (%FS)	
STK-616TMWD	STK-616T-20MWDB5	±20	5	40	600	0.2	8	NO	N/A	N/A	3.5	SOIC16W Like 10.3 × 10.3 mm
	STK-616T-40MWDB5	±40	5	20	600	0.2	8	NO	N/A	N/A	3.5	
	STK-616T-65MWDB5	±65	5	13.3	600	0.2	8	NO	N/A	N/A	3.5	
	STK-616T-33MWDB3	±33	3.3	39.6	600	0.2	8	NO	N/A	N/A	3.5	
	STK-616T-20MWDB3	±20	3.3	66	600	0.2	8	NO	N/A	N/A	3.5	
	STK-616T-40MWDB3	±40	3.3	33	600	0.2	8	NO	N/A	N/A	3.5	
STK-616ZMF	STK-616Z-10MFU5	10	5	400	2000	0.05	4.2	NO	N/A	N/A	3.5	SOIC8 Like 4.9 × 6.0 mm
	STK-616Z-10MFB5	±10	5	200	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-10MFB3	±10	3.3	132	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-20MFB5	±20	5	100	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-20MFB3	±20	3.3	66	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-30MFB5	±30	5	66.7	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-30MFU5	30	5	133.3	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-30MFU3	30	3.3	88	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-40MFB5	±40	5	50	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-50MFB5	±50	5	40	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-50MFU3	50	3.3	88	2000	0.05	4.2	NO	N/A	N/A	3.5	
	STK-616Z-65MFB5	±65	5	30	2000	0.05	4.2	NO	N/A	N/A	3.5	
STK-616YML	STK-616Y-20MLB5	±20	5	100	400	1	2.1	NO	N/A	N/A	3.5	SOIC8 Like 4.9 × 6.0 mm
	STK-616Y-25MLB5	±25	5	80	400	1	2.1	NO	N/A	N/A	3.5	
	STK-616Y-30MLB5	±30	5	66.7	400	1	2.1	NO	N/A	N/A	3.5	
	STK-616Y-40MLB5	±40	5	50	400	1	2.1	NO	N/A	N/A	3.5	
	STK-616Y-50MLB5	±50	5	40	400	1	2.1	NO	N/A	N/A	3.5	
	STK-616Y-50MLB3	±50	3.3	26.4	400	1	2.1	NO	N/A	N/A	3.5	



STK-616/AM series



STK-616/BML



STK-616/DML



STK-616/HML



STK-616/KML



STK-616/TMx series



STK-616/ZML



STK-616/YML



STK-LBS/6G



STK-LBS/S



STK-LBS/S2





# 07

## CHARGING PILES APPLICATION

充电桩应用

### 剩余电流检测传感器

#### Residual Current Detection Sensor



产品系列	产品图	原边连接方式	电流线数量	产品型号	测量范围(A)	剩余电流规格	标准
Series	Structure	Pri. Style	Number of Pri.	Item No.	Measuring range(A)	Nominal differential current	Standard
SFG-CPL/A		Primary conductor 带电流线	4	SFG-0.3CPL/A	0.3	6mA DC 30mA AC	IEC 62752 IEC62955
				SFG-0.3CPL/A-B	0.3	5mA AC	UL2231 CCID5
SFG-CPL/A2		Pass through opening 穿心 (开口)	-	SFG-0.3CPL/A2	0.3	6mA DC 30mA AC	IEC 62752 IEC62955
				SFG-0.3CPL/A2-A	0.3	6mA DC	IEC 62955
				SFG-0.3CPL/A2-C	0.3	20mA AC	UL2231 CCID20
SFG-CPL/A3		Pass through opening 穿心 (开口)	-	SFG-0.3CPL/A3	0.3	6mA DC 30mA AC	IEC 62752 IEC62955
				SFG-0.3CPL/A3-C	0.3	20mA AC	UL2231 CCID20
SFG-CPL/A4		Primary conductor 带电流线	2	SFG-0.3CPL/A4	0.3	6mA DC 30mA AC	IEC 62752 IEC62955
SFG-CPL/A5		Pass through opening 穿心 (开口)	-	SFG-0.3CPL/A5	0.3	6mA DC 30mA AC	IEC 62752 IEC62955
				SFG-0.3CPL/A5-C	0.3	20mA AC	UL2231 CCID20
SFG-CPL/A6		Pass through opening 穿心 (开口)	-	SFG-0.3CPL/A6	0.3	6mA DC 30mA AC	IEC 62752 IEC62955
SFG-CPL/A7		Primary conductor 带电流线	4	SFG-0.3CPL/A7	0.3	6mA DC 30mA AC	IEC 62752 IEC62955
SFG-CPL/A8		Primary conductor 带电流线	2	SFG-0.3CPL/A8	0.3	6mA DC 30mA AC	IEC 62752 IEC62955
				SFG-0.3CPL/A8-C	0.3	20mA AC	UL2231 CCID20

### Charging Piles / 充电桩

产品系列	产品图	原边连接方式	电流线数量	产品型号	测量范围(A)	剩余电流规格	标准
Series	Structure	Pri. Style	Number of Pri.	Item No.	Measuring range(A)	Nominal differential current	Standard
SFG-CPL/A9		Primary conductor 带电流线	2	SFG-0.3CPL/A9	0.3	6mA DC 30mA AC	IEC 62752 IEC62955
SFG-CPL/B		Primary conductor 带电流线	4	SFG-0.3CPL/B	0.3	6mA DC 30mA AC	IEC 62752 IEC62955
				SFG-0.3CPL/B-A	0.3	6mA DC 20mA AC	IEC62752 UL2231 CCID20
				SFG-0.3CPL/B-B	0.3	5mA AC 20mA AC	UL2231 CCID5 UL2231 CCID20
				SFG-0.3CPL/B-D	0.3	6mA DC	IEC62955
SFG-CPL/B1		Pass through opening 穿心 (开口)	-	SFG-0.3CPL/B1	0.3	6mA DC 30mA AC	IEC 62752 IEC62955
				SFG-0.3CPL/B1-C	0.3	20mA AC 20mA AC	UL2231 CCID20
SFG-CPL/B2		Pass through opening 穿心 (开口)	-	SFG-0.3CPL/B2	0.3	6mA DC 30mA AC	IEC 62752 IEC62955

### 充电桩用电流传感器

#### Current Sensors for Charging Piles



### Charging Piles / 充电桩



Applied Current Sensor		Applied Current Sensor			
PN-01	STB-CAS	PN-01	STB-CAS/F		
PN-02	STB-CAS/R	PN-02	STB-CAS/R/F		
PN-03	STB-CAS/K	PN-03	STB-CAS/K/F		
Vcc	5.0	V	Vcc	10~180	V
I <sub>pn</sub>	15~75	A	I <sub>pn</sub>	6~75	A
I <sub>pm</sub>	51~220	A	I <sub>pm</sub>	20~220	A
F <sub>band</sub>	400	KHZ	F <sub>band</sub>	400	KHZ
t <sub>r</sub>	0.3	μs	t <sub>r</sub>	0.3	μs
Acc.	1.1~3.0	%FS	Acc.	1.1~3.0	%FS

CHARGING PILES / 充电桩

## Charging Piles / 充电桩

Applied Current Sensor		Applied Current Sensor			
PN-01	STK-616A, STK-616H		PN-01	STK-HD/P, STK-HD/P/G	
PN-02	STK-616K, STK-616T		PN-02	STK-HD/K, STK-HD/K/G	
PN-03			PN-03		
Vcc	3.3 or 5.0	V	Vcc	3.3 or 5.0	V
I <sub>pn</sub>	10~200	A	I <sub>pn</sub>	5.0~50	A
I <sub>pm</sub>	NA	A	I <sub>pm</sub>	10~125	A
F <sub>band</sub>	500~1500	kHZ	F <sub>band</sub>	600~1000	kHZ
t <sub>r</sub>	0.2~0.9	μs	t <sub>r</sub>	1.0	μs
Acc.	3.0~3.5	%FS	Acc.	1.5~3.0	%FS

Applied Current Sensor		Applied Current Sensor			
PN-01	STK-PL/A		PN-01	STK-HO	
PN-02	STK-PL/M		PN-02		
PN-03	STK-PL/AG		PN-03		
Vcc	5.0	V	Vcc	5.0	V
I <sub>pn</sub>	10~180	A	I <sub>pn</sub>	60~150	A
I <sub>pm</sub>	25~450	A	I <sub>pm</sub>	150~375	A
F <sub>band</sub>	300~1000	kHZ	F <sub>band</sub>	200	kHZ
t <sub>r</sub>	0.2~1.5	μs	t <sub>r</sub>	2.0	μs
Acc.	2.0	%FS	Acc.	3.0	%FS

Applied Current Sensor		Applied Current Sensor			
PN-01	STK-600/M-MPFF&MPSF		PN-01	STK-600/F	
PN-02	STK-600/M-PFF&PSF&PSS		PN-02		
PN-03			PN-03		
Vcc	3.3 or 5.0	V	Vcc	5.0	V
I <sub>pn</sub>	50, 100	A	I <sub>pn</sub>	50	A
I <sub>pm</sub>	50~400	A	I <sub>pm</sub>	200~400	A
F <sub>band</sub>	120	kHZ	F <sub>band</sub>	1000	kHZ
t <sub>r</sub>	4.6	μs	t <sub>r</sub>	0.4	μs
Acc.	3.5	%FS	Acc.	3.5	%FS