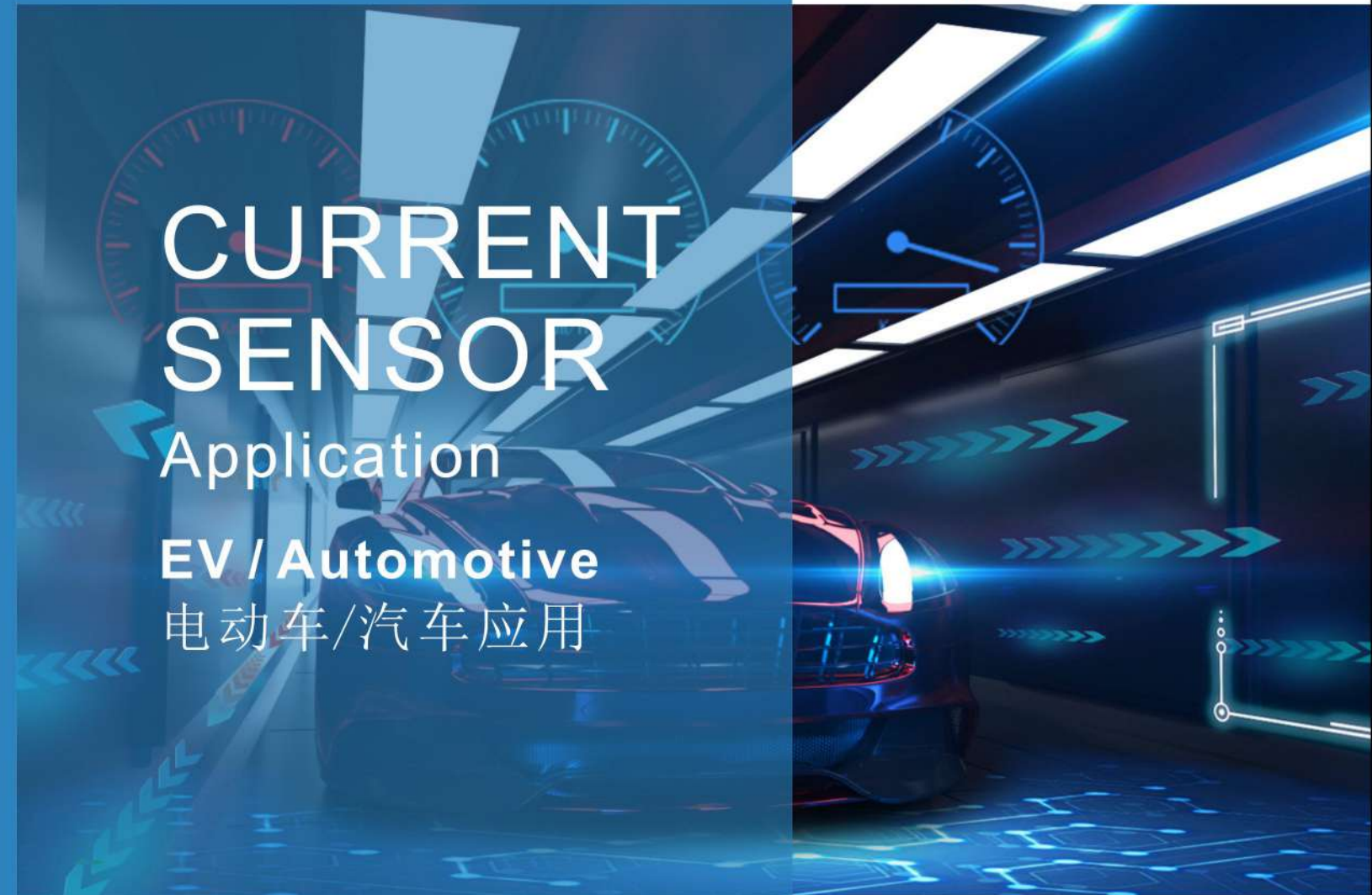




CURRENT SENSOR

Application

EV / Automotive
电动车/汽车应用



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 250 R&D personnel with a 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.

1200/250 employees

1200 employees, 250 R&D staff

500 Mpcs

Wafer capacity 500 million pcs/year

100 Mpcs

2022 *current sensor* production capacity exceeds 100 million

250 Mpcs

Cumulative *current sensor* shipments of approximately 250 million units



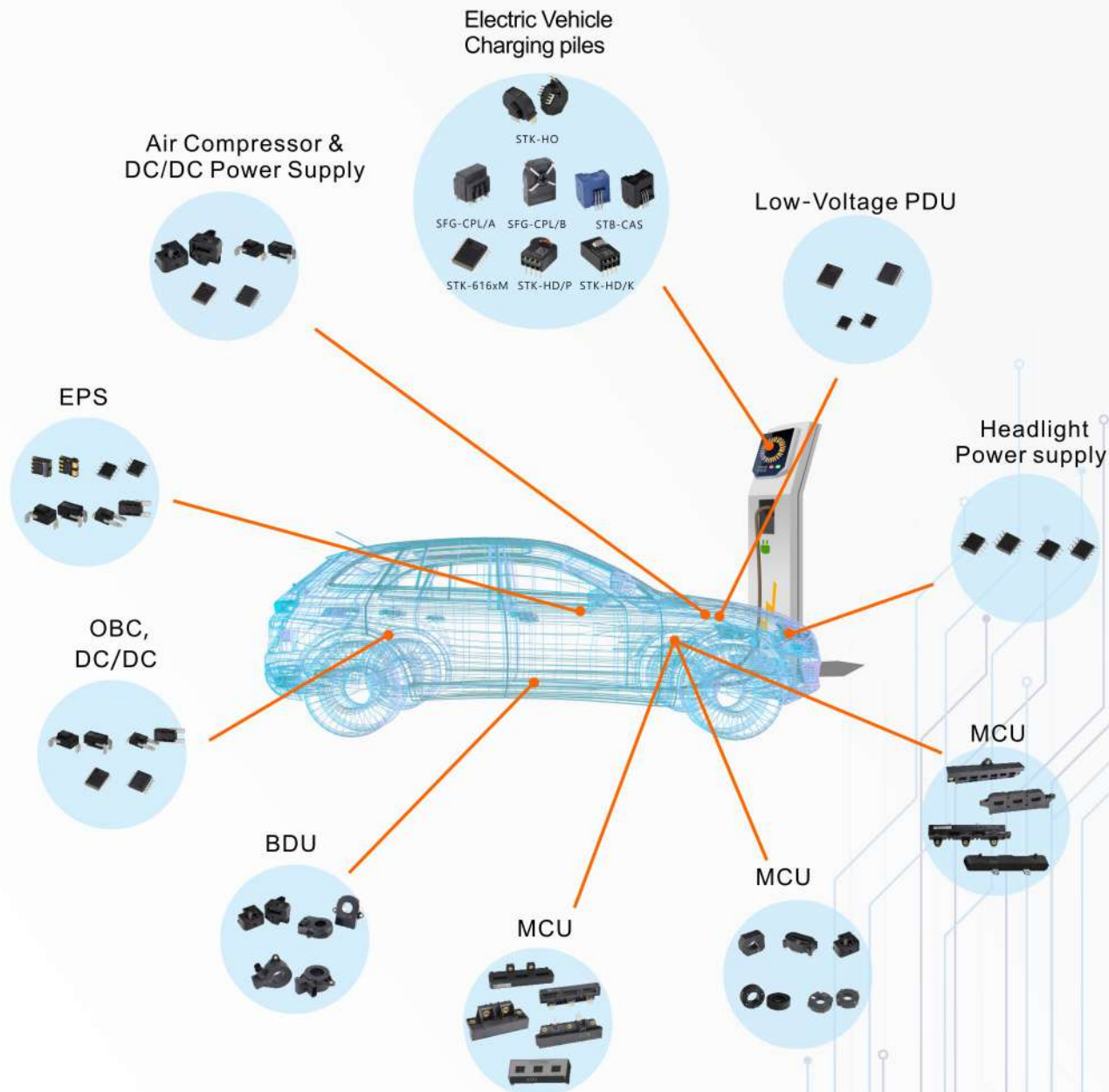
- Wuxi
R&D & Headquarter
- Bengbu
Production for Current Sensor
- Ningbo
R&D & Production for Current Sensor
- Mainz
Waferfab for magnetic sensor
- Wetzlar
R&D Center for magnetic sensor



EV / Automotive Application

◎ Features

- AEC-Q100 Qualified
- ISO26262 (certification in progress)
- Wide range of current detection
- Excellent EMC performance



Application: OBC, DC/DC



STK-616KM



STK-616TM



STK-600/M/M



STK-600/M



STK-600/M



STK-600/M/M

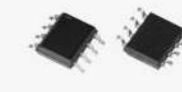
◎ Absolute parameter & Electrical parameters

Product	Out		V _{cc} (V)	U _{ESD} (kV)	U _d (kV)	I _{pn} (A)	I _{pm} (A)	f _{band} (kHz)	t _r (μs)	Acc. (%FS)	Application
	Voltage	Current									
STK-600/M-M	○		3.3, 5	4	4	50~100	50~250	120	4.6	3.5	OBC
STK-600/M	○		3.3, 5	4	4	50~100	50~400	120	4.6	3.5	
STK-616TML	○		3.3, 5	4	3.6	40~65	40~65	600	0.9	3.5	
STK-616KML	○		3.3, 5	4	3.6	40~65	40~65	600	0.9	3	
STK-616TMF	○		3.3, 5	4	3.6	40~65	40~65	1500	0.3	3.5	
STK-616KMF	○		3.3, 5	4	3.6	40~65	40~65	1000	0.5	3	

Application: EPS



STK-600/M-MPFF



STK-616YM

◎ Absolute parameter & Electrical parameters

Product	Out			V _{cc} (V)	U _{ESD} (kV)	U _d (kV)	I _{pn} (A)	I _{pm} (A)	f _{band} (kHz)	t _r (μs)	Acc. (%FS)	Application
	Voltage	Digital	Current									
STK-600/M-M	○			5, 3.3	4	4	50, 100	50~250	120	4.6	3.5	EPS
STK-616YML	○			5, 3.3	4	2	20~50	20~50	400	1	3.5	

Application : MCU



SHK-VBS/D



SHK-VBS2/D



SHK-VBS3



SHK-VBS5/S2



SHK-VBS6/S2



SHK-VBS/TE



SHK-VBS/TF



SHK-VBS/TG



SHK-VBS-TH



STK-VBS/T3



STK-VBS/T4



SHK-VBS/T5



SHK-VBS/T6



SHK-VBS/T7



SHK-VBS/T8



SHK-VBS/T9

◎Absolute parameter & Electrical parameters

Product	Out		V _{cc} (V)	U _{ESD} (kV)	U _d (kV)	I _{pn} (A)	I _{pm} (A)	f _{band} (kHz)	t _r (μs)	Acc. (%FS)	Application
	Voltage	Current									
SHK-VBS/D-A	○		5	8	2.5	75~1000	75~1000	10	18	2.5~5	MCU
SHK-VBS/D-B	○		5	8	2.5	75~750	75~750	10	18	1	
SHK-VBS/D-C	○		5	8	2.5	75~500	75~500	10	18	1	
SHK-VBS2/D	○		5	4	4	545	±1090	NC	3.5	3.5	
SHK-VBS3	○		5	4	4	400~900	400~900	100	3.5	3.5	
SHK-VBS3/S2	○		5	4	4	400~900	400~900	100	3.5	3.5	
SHK-VBS3/S4	○		5	4	4	400~900	400~900	100	3.5	3.5	
SHK-VBS3/S5	○		5	4	4	400~900	400~900	100	3.5	3	
SHK-VBS5/S2	○		5	4	4	100~900	100~900	100	3.5	2.5	
SHK-VBS6	○		5	4	4	100~1500	100~1500	40	2	2.5	
SHK-VBS6-S2	○		5	4	4	100~1500	100~1500	40	2	1	
SHK-VBS8	○		5	8	2.5	2000	2000	40	2	1	
SHK-VBS/TE	○		5	4	2	200	300	40	4	NA	
SHK-VBS/TF	○		5	4	5.4	300	200	100	3.5	2.5	
SHK-VBS/TG	○		15	2	2.5	50~150	150~450	60	7	3	
SHK-VBS/TH	○		5	8	3	660	660	40	2	NA	

Product	Out		V _{cc} (V)	U _{ESD} (kV)	U _d (kV)	I _{pn} (A)	I _{pm} (A)	f _{band} (kHz)	t _r (μs)	Acc. (%FS)	Application
	Voltage	Current									
SHK-VBS/T3	○		5	4	4	545	1090	100	1	2.5	MCU
SHK-VBS/T4	○		5	4	4	545	1090	100	18	2.5	
SHK-VBS/T5	○		5	4	4	300	300	40	18	1	
SHK-VBS/T6	○		5	4	4	800~1200	800~1200	40	18	2	
SHK-VBS/T7	○		5	4	4	600	300,600	40	3.5	1	
SHK-VBS/T8	○		5	4	4	300~1200	300~1200	40	3.5	1	
SHK-VBS/T9	○		5	4	4	900	900	40	3.5	1	

Application: Air Compressor & DC/DC Power supply



SHK-VBS2/D



SHK-VBS3/S2



STK-600/M-MPFF



STK-600/M-MSFF



STK-600/M-PFF



STK-600/M-PSF



STK-616TM,KM



STK-616BM,EM,DM

◎Absolute parameter & Electrical parameters

Product	Out			V _{cc} (V)	U _{ESD} (kV)	U _d (kV)	I _{pn} (A)	I _{pm} (A)	f _{band} (kHz)	t _r (μs)	Acc. (%FS)	Application
	Voltage	Digital	Current									
SHK-VBS2/D	○			5	4	4	545	±1090	NC	3.5	3	Air Compressor & DC/DC Power supply
SHK-VBS3/S2	○			5	4	4	400~900	400~900	100	3.5	3.5	
STK-600/M-M	○			5,3.3	4	4	50,100	50~250	120	4.6	3.5	
STK-600/M	○			5,3.3	4	4	50,100	50~400	120	4.6	3.5	
STK-616KML	○			5,3.3	4	3.6	40~65	40~65	600	0.9	3	
STK-616KMF	○			5,3.3	4	3.6	40~65	40~65	1000	0.2	3	
STK-616TML	○			5,3.3	4	3.6	40~65	40~65	600	0.9	3.5	
STK-616TMF	○			5,3.3	4	3.6	40~65	40~65	1500	0.2	3.5	
STK-616BML	○			5,3.3	4	3.6	12.5~25	37.5~75	600	0.9	3.5	
STK-616DMF	○			5,3.3	4	3.6	15~65	15~65	600	0.9	3.5	
STK-616EML	○			5,3.3	4	3.6	20~65	20~65	600	0.9	3.5	

Application: BDU



◎Absolute parameter & Electrical parameters

Product	Out			V _{cc} (V)	U _{ESD} (kV)	U _d (kV)	I _{pn} (A)	I _{pm} (A)	f _{band} (kHz)	t _r (μs)	Acc. (%FS)	Application
	Voltage	Digital	Current									
STB-CAB		○		12	4	2.5	500~1500	500~1500	NA	NA	0.5	BDU
SHK-VBS/D-A	○			5	8	2.5	75~1000	75~1000	10	18	2.5~2	
SHK-VBS/D-B	○			5	8	2.5	75~750	75~750	10	18	1	
SHK-VBS/D-C	○			5	8	2.5	75~500	75~500	10	18	1	
SHK-VBS6/S2	○			5	4	4	100~1500	100~1500	40	2	2.5	

Application: Headlight Power supply



Product	Out			V _{cc} (V)	U _{ESD} (kV)	U _d (kV)	I _{pn} (A)	I _{pm} (A)	f _{band} (kHz)	t _r (μs)	Acc. (%FS)	Application
	Voltage	Digital	Current									
STK-616ZMF	○			5, 3.3	4	2.4	20~50	20~50	2000	0.1	3.5	Headlight Power supply
STK-616YML	○			5, 3.3	4	2.0	20~65	20~65	350	1.2	3.5	

Application: Electric Vehicle Charging piles



◎Absolute parameter & Electrical parameters

Product	Out			V _{cc} (V)	U _{ESD} (kV)	U _d (kV)	I _{pn} (A)	I _{pm} (A)	f _{band} (kHz)	t _r (μs)	Acc. (%FS)	Application
	Voltage	Digital	Current									
STK-HO	○			5	4	4	60~150	150~375	150	2	3	Charging piles
STK-PL/A	○			5	4	5	10~50	25~125	400	1.5	2	
STK-PL/M	○			5	4	5	80~180	200~450	500	1	2	
STK-616KMF	○			3.3	4	3.6	40~65	40~65	1000	0.2	3	
STK-616TML	○			5, 3.3	4	3.6	40~65	40~65	600	0.9	3.5	
STK-616TMF	○			5, 3.3	4	3.6	40~65	40~65	1500	0.2	3.5	
STK-616KML	○			3.3	4	3.6	40~65	40~65	600	0.9	3	
STK-616BML	○			5, 3.3	4	3.6	12.5~25	37.5~75	600	0.9	3.5	
STK-616DML	○			5, 3.3	4	3.6	15~65	15~65	600	0.9	3.5	
STK-616EML	○			5, 3.3	4	3.6	20~65	20~65	600	0.9	3.5	
STK-600/M	○			5, 3.3	4	4	50,100	50~400	120	4.6	3.5	
STK-600/M-M	○			5, 3.3	4	4	50,100	50~250	120	4.6	3.5	
STK-HD/P	○			5, 3.3	4	4	5~30	10~75	600	1	3	
STK-HD/K	○			5	4	4	32~50	80~125	600	1	1.5	
STB-CAS/x	○			5	4	5	15~75	51~220	400	0.3	3.5	

Application: Electric Vehicle Charging Pile



Accuracy
--1 mA

Earth Leakage
Protection
(Type B)



SFG-CPL/A



SFG-CPL/B

© Features

- IEC 62752
- IEC 62955
- Frequency DC ~ 1 kHz
- Optional analog output
- Supports DC 6 mA, AC 30 mA digital output
- Primary side load current 40 A (expandable to 100 A)

© Absolute parameter & Electrical parameters

Product	Out			V _{cc} (V)	U _{ESD} (kV)	U _d (kV)	I _{pn} (mA)	I _{pm} (mA)	f _{band} (kHz)	t _r (μs)
	Voltage	Digital	Current							
SFG-CPL/A		○		5	7	3	6, 30	300	2	Follow IEC62752
SFG-CPL/B		○		5	7	3	6, 30	300	2	Follow IEC62752

