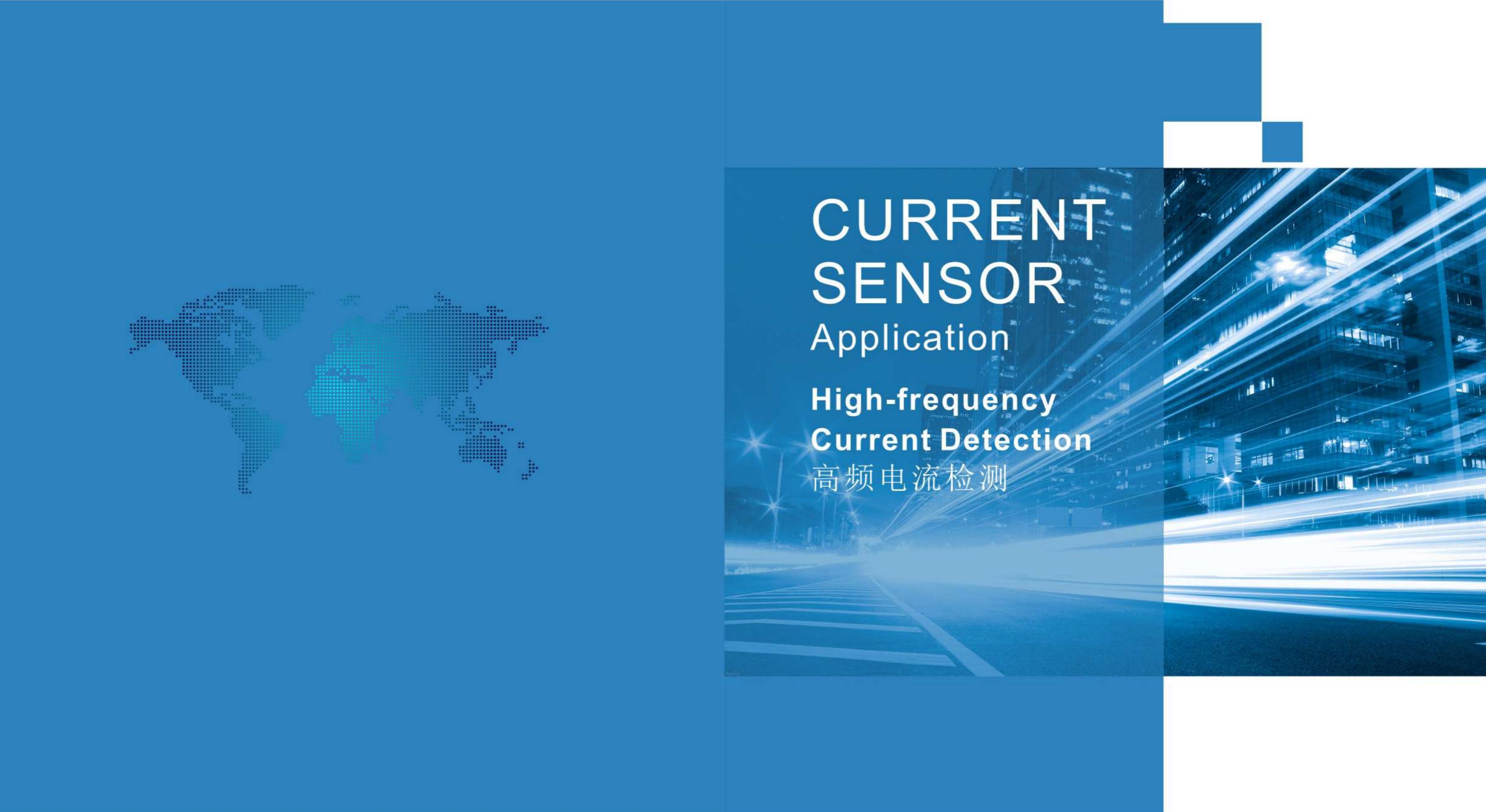


## CURRENT SENSOR APPLICATION



**CURRENT  
SENSOR**  
Application  
**High-frequency  
Current Detection**  
高频电流检测

Email: sinomags@sinomags.com  
Website: www.sinomags.com



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**

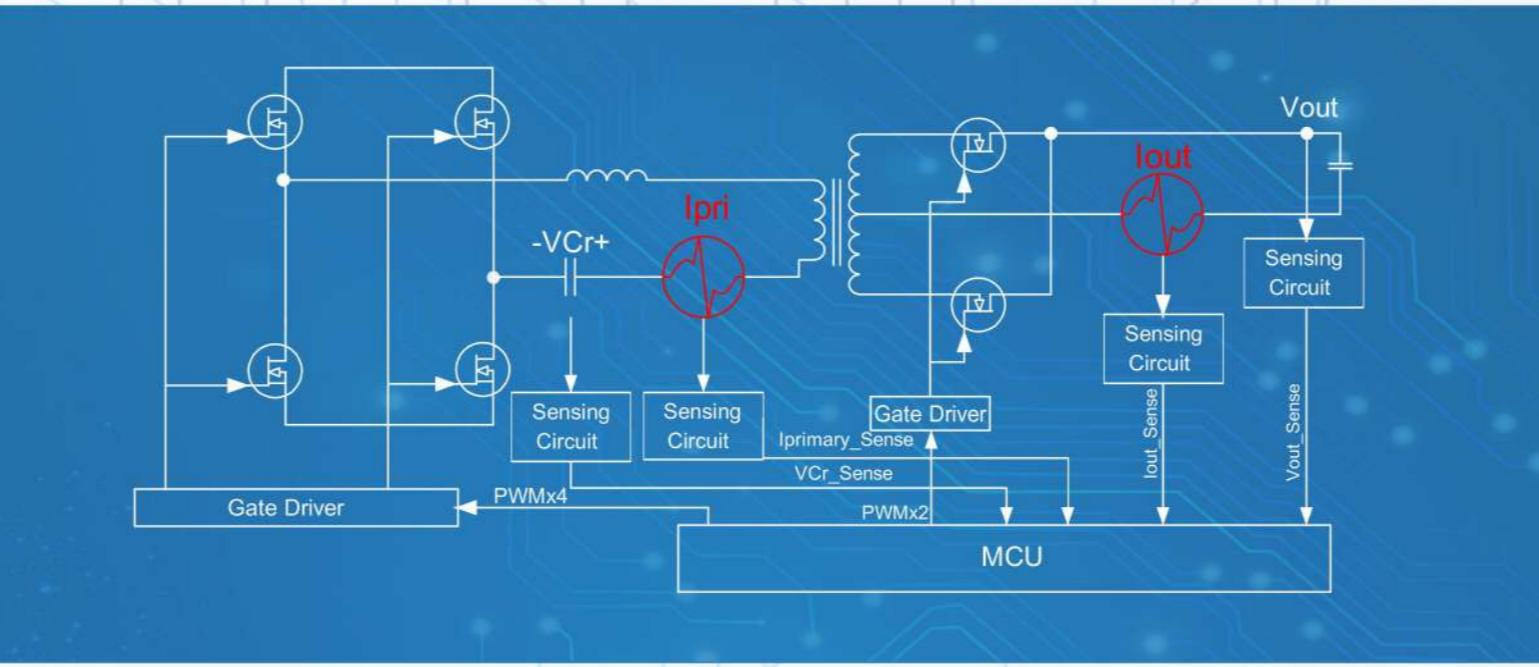
2022 current sensor production capacity exceeds 100 million

**250 Mpcs**

Cumulative current sensor shipments of approximately 250 million units



## High-frequency Current Detection



### — PRODUCT —

#### ◎ Features

- 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)



#### Electrical parameters

Product	Out		Vcc (V)	U <sub>ESD</sub> (kV)	Ud (kV)	I <sub>pn</sub> (A)	I <sub>pm</sub> (A)	f <sub>band</sub> (kHz)	t <sub>r</sub> (μs)	Acc. (%FS)
	Vout gata	Current								
STK-616KMF	○		3.3, 5	4	3.6	40~65	40~65	1000	0.5	3
STK-616ZMF	○		3.3, 5	4	3.6	20~50	20~50	2000	0.05	3.5
STK-616TMF	○		3.3, 5	4	3.6	40~65	40~65	1500	0.3	3.5
STK-600/F	○		3.3, 5	4	4	50	200~400	800	0.5	3.5
STK-PL/AG	○		5	4	5	10~50	25~125	1000	0.2	2
STK-HD/SG	○		5	4	4	3~10	7.5~25	600	0.4	1.5
STK-HD/K/G	○		5	4	4	20~50	50~125	1000	0.4	1.5
STK-HD/P/G	○		3.3, 5	4	4	5~30	12.5~75	1000	1.0	3
STB-LF/G	○	±15	4	4	4	100	200	1000	0.2	3
STK-HO/B	○	5	4	4	4	30~130	75~350	1000	0.2	3