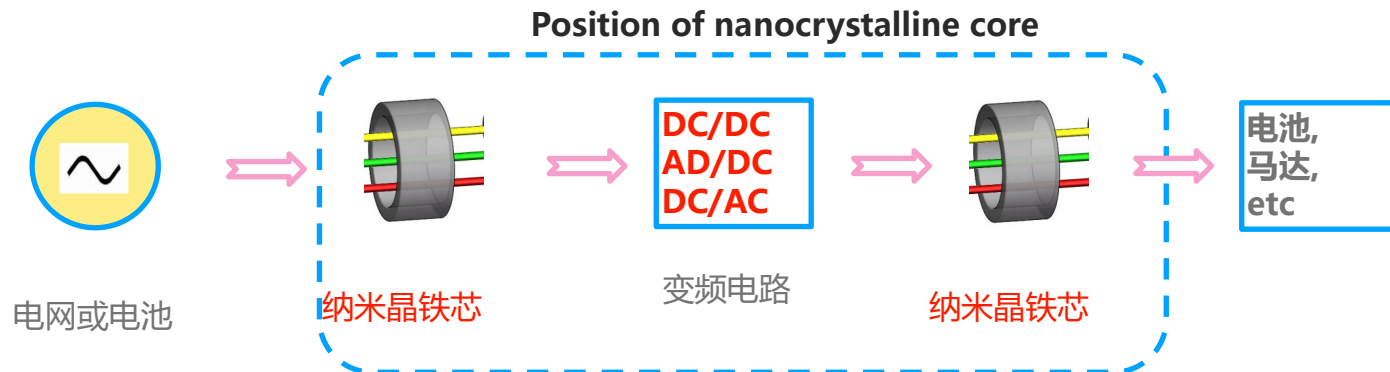
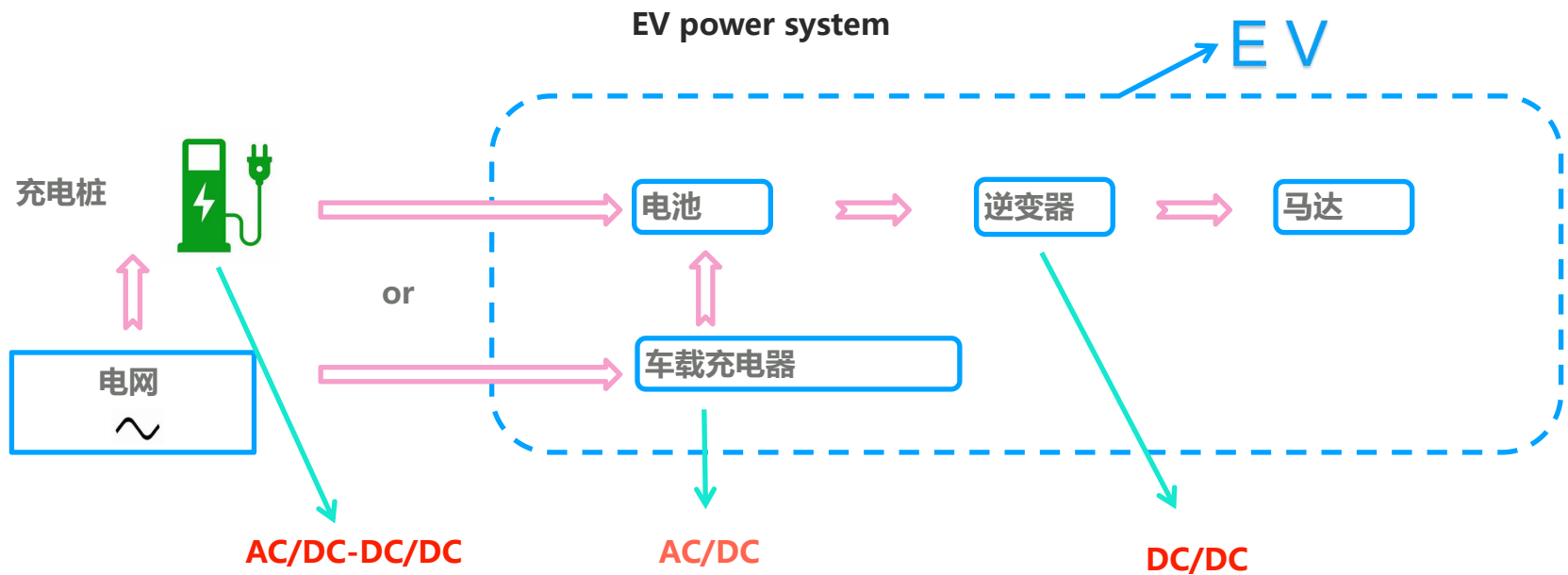




Applications of Nanocrystalline in EV

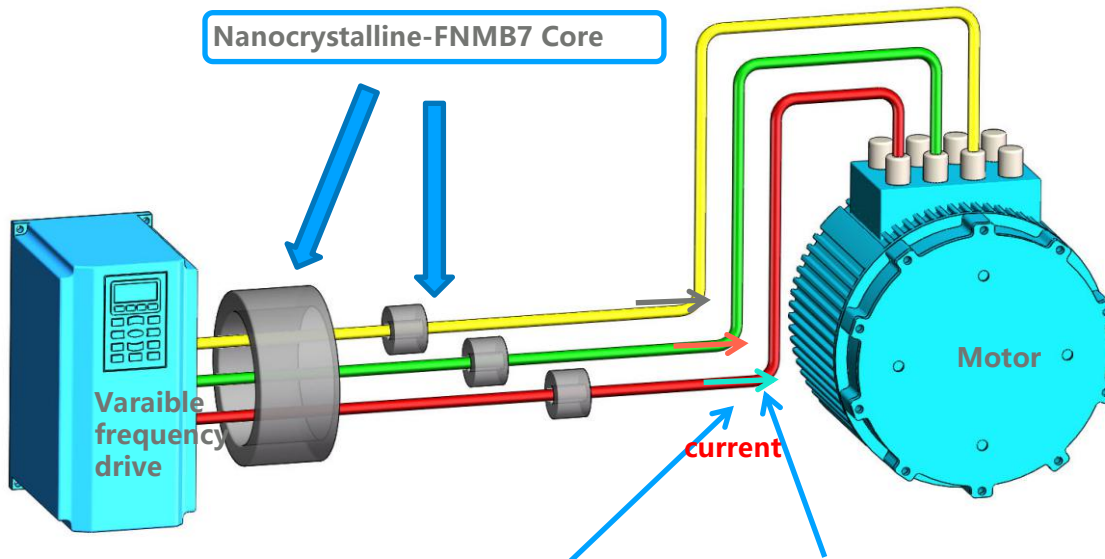
Foresee New Materials Co., Ltd.

Applications of NC in EV Power System



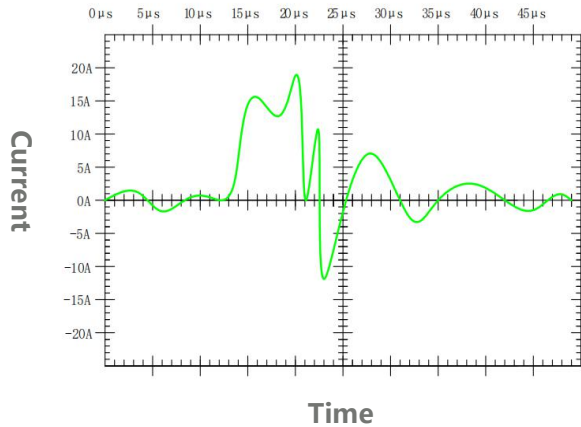
Applications of NC in EV | Inverter

Noise suppression

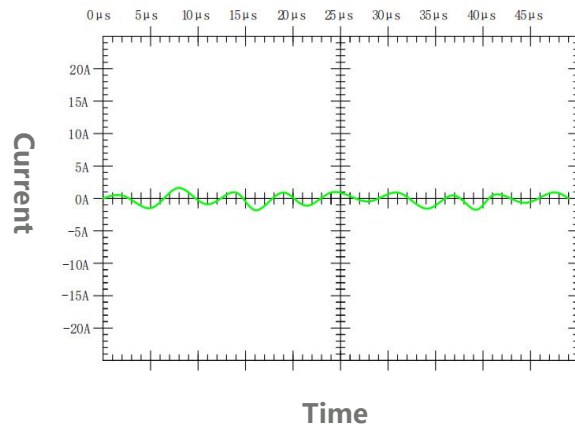


纳米晶铁芯应用到逆变器-电动机(发电机)系统中,可有效降低系统中的谐波分量、抑制电磁干扰、消除电机主轴的电流,从而保护整个系统的稳定性及安全性,是一种既高效又经济的解决方案,目前已越来越多的应该用到新能源汽车领域。

Without Nanocrystalline-core

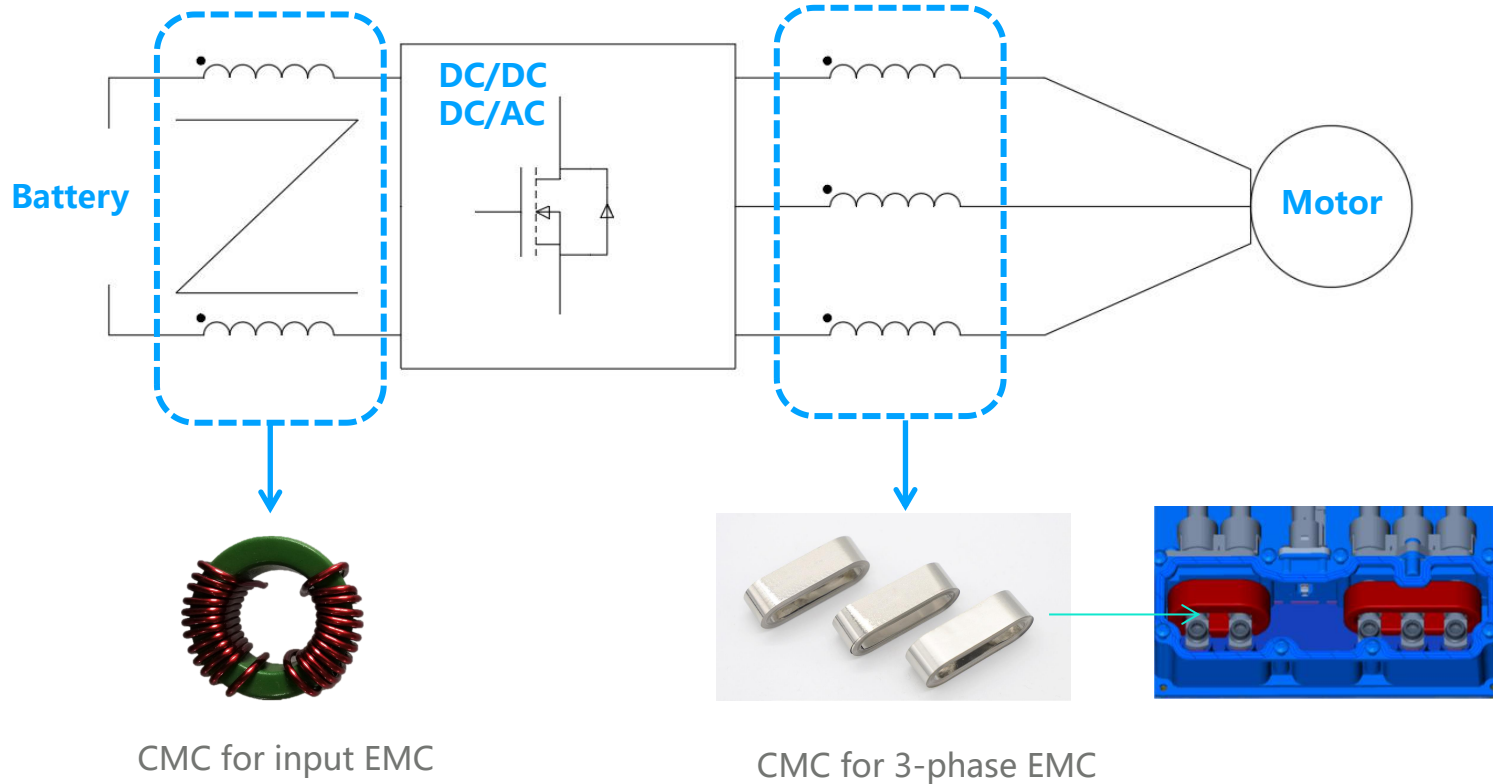


With Nanocrystalline-core

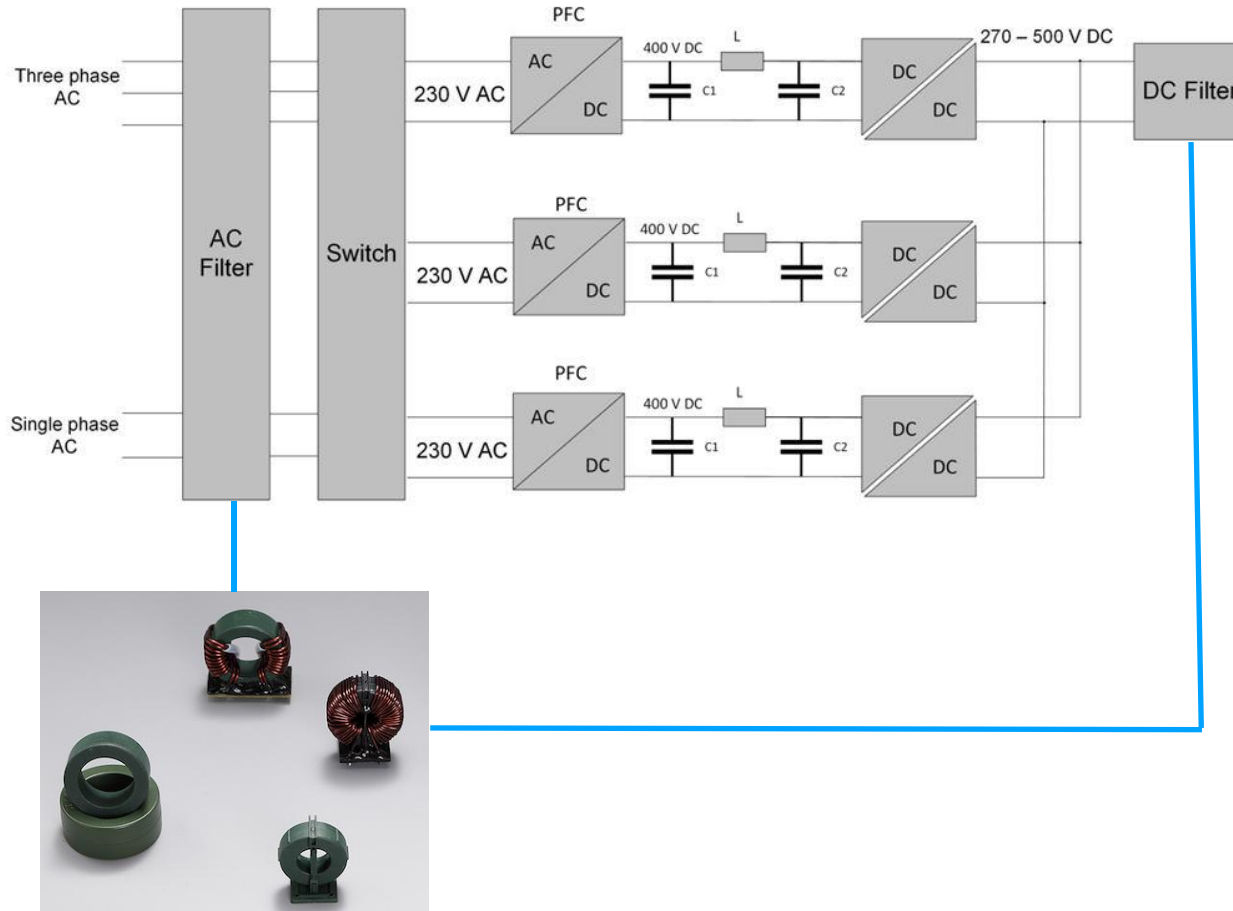


Applications of NC in EV | Inverter

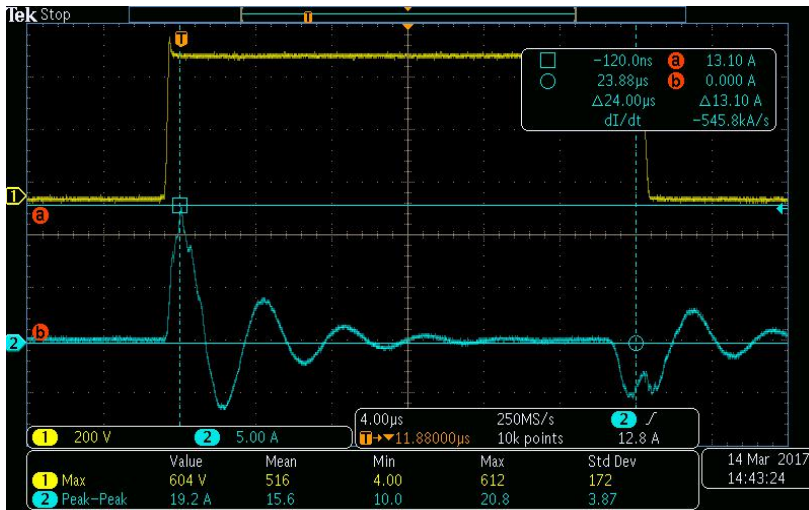
Electro magnetic compatibility(EMC) application



Applications of NC in EV | OBC (AC-DC)

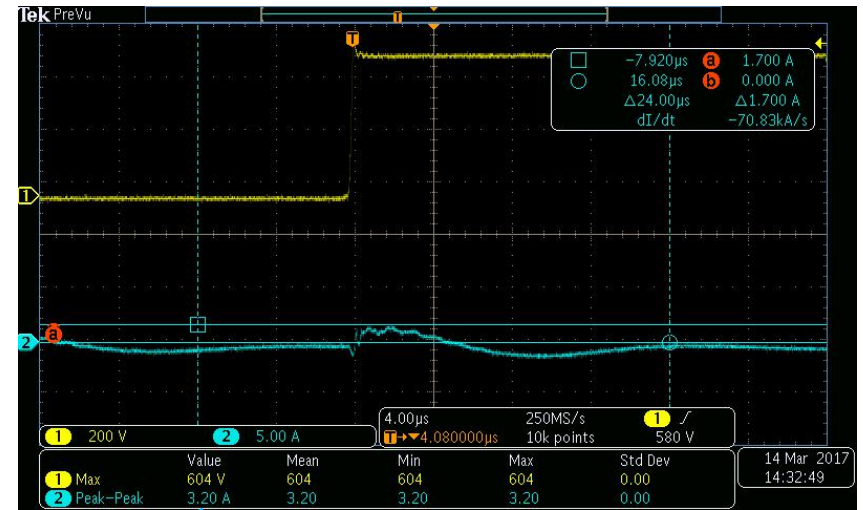


Working principle of Nanocrystalline Core



Without Nanocrystalline core

Peak-Peak = 19.2A



With Nanocrystalline core

Peak-Peak = 3.2A

纳米晶单圈共模电感的作用是，抑制电路中产生的共模电磁干扰，保护电路系统。由于电动汽车变频器、逆变器等使用高频拓扑电路，使得EV动力系统内产生大量共模干扰，纳米晶相比于铁氧体的优势在于：更好的热稳定性，更轻，更小，抗直流分量能力强。



Thank You

Foresee New Materials Co., Ltd.

杭州智见控股集团有限公司
Hangzhou Foresee Group Holding Co., Ltd.