

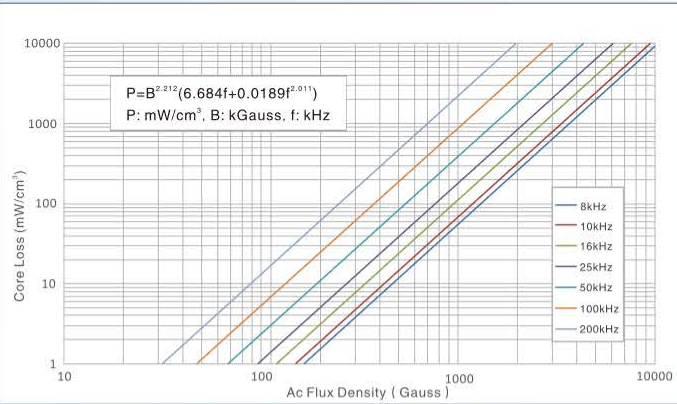
KSF-HP Cores

Low Core Loss Si-Fe Material for High Current Application

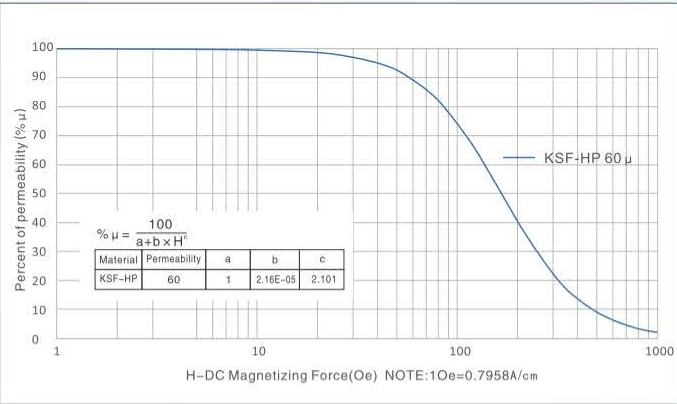


✓ **KSF-HP** is a low core loss Si-Fe material with good DC-bias characteristics. Its core loss is about 30% lower than normal Si-Fe. It could effectively reduce the inductance temperature rise, and improve the efficiency and power density. KSF-HP could be used in automotive power supply system (OBC, DC-DC), UPS, PV inverter, etc.

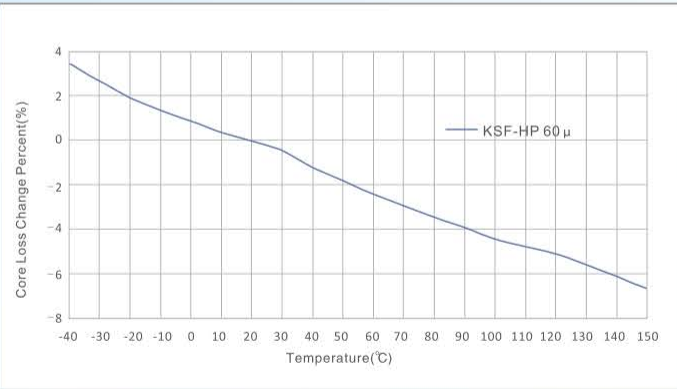
Core Loss Curve (KSF-HP 60 μ)



Typical DC-Bias Curve (KSF-HP 60 μ)



Core Loss vs Temperature Curve (KSF-HP 60 μ)



Performance Table of Materials

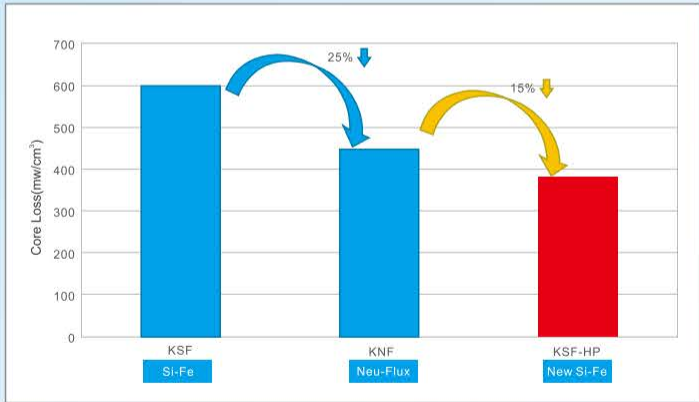
Material	μ	Core Loss (mW/cm³) @50kHz/100mT	Core Loss (mW/cm³) @100kHz/100mT	DC-Bias (%μ) @1000e	Bs(T)
KSF-HP	60	380	866	74%	1.5
Sendust (KS)	60	280	660	47%	1.05
Super Sendust (KS-HF)	60	300	750	61%	1.2
Si-Fe® (KSF)	60	590	1465	72%	1.6

KSF-HP Cores

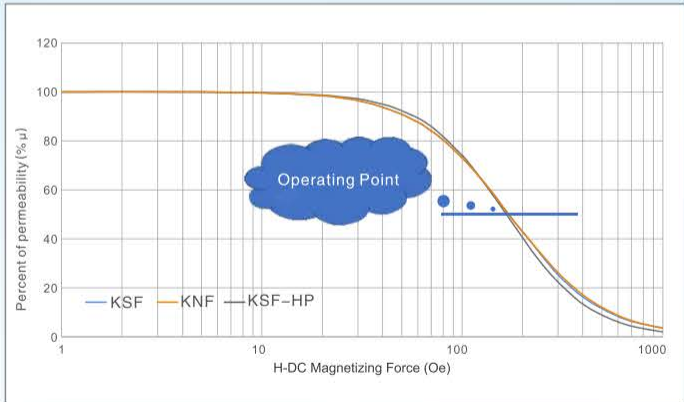
Low Core Loss Si-Fe Material for High Current Application

Performance Comparison of Different Materials

Typical Core Loss Comparison @50kHz,100mT



Percentage Change Of Permeability VS DC Magnetizing Force

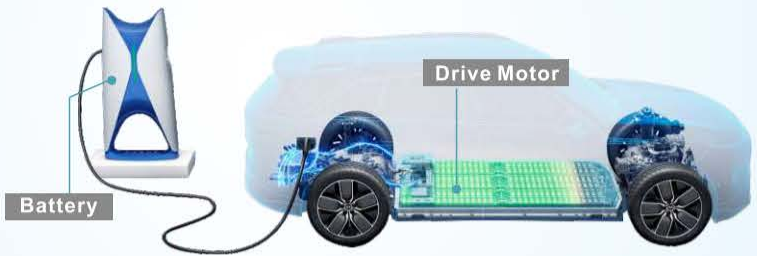


Main Application

PV Inverter



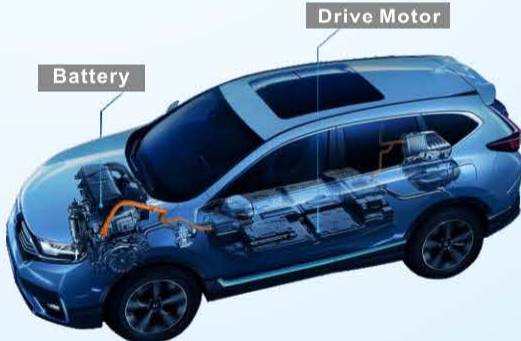
Charging Station



Fuel Cell EV



Hybrid EV



Prodin Ferrite S.L.

Calle A, 27, 08620 Sant Vicenç dels Horts, Barcelona (Spain)
Tel.: +34 93 672 46 10
info@prodinferrite.com www.prodinferrite.com