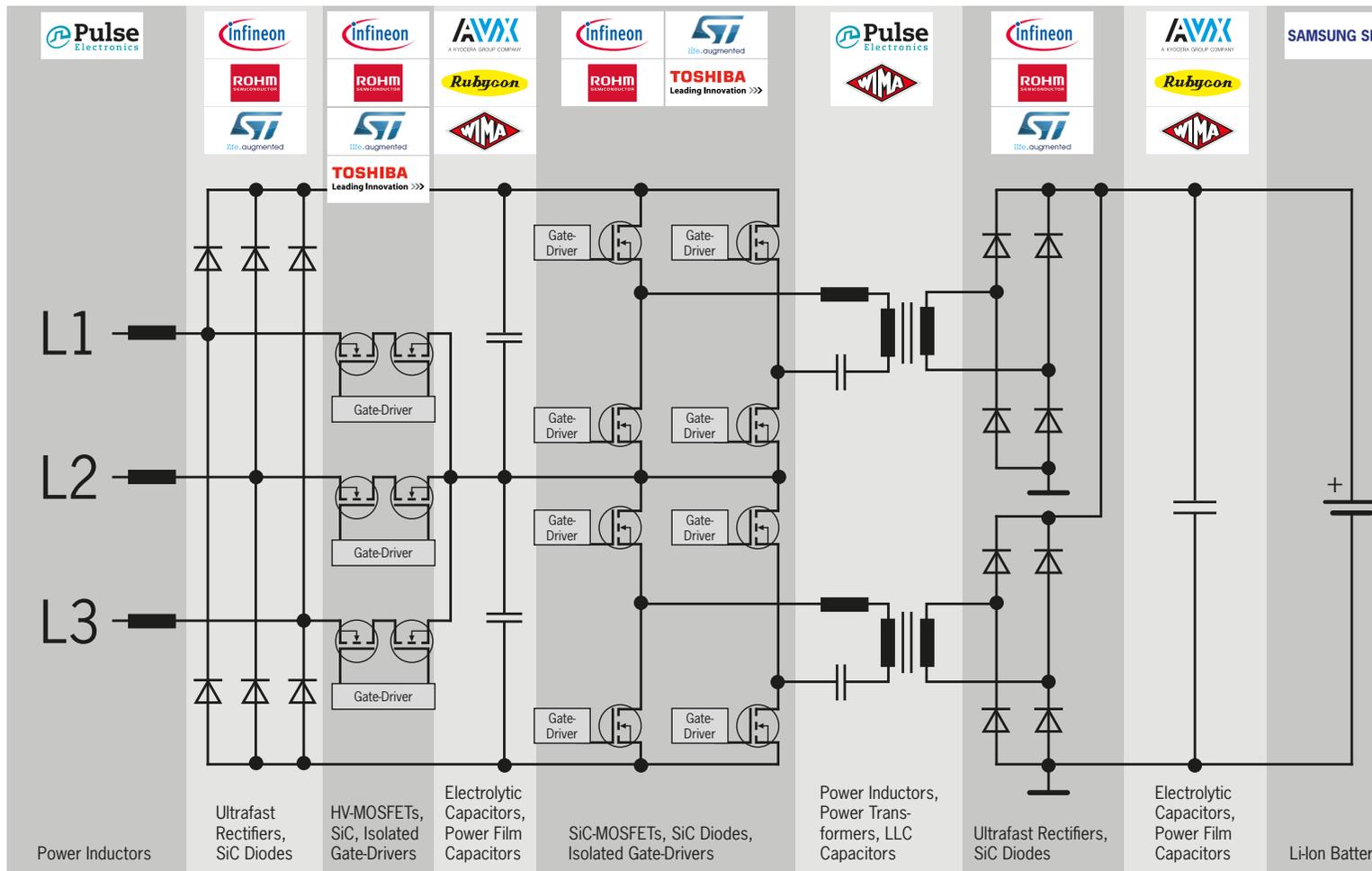




Discover Innovation in Motion

# AUTOMOTIVE Products

## 3-Phase EV Charger with Power Factor Control and Vienna Bridge



**Automotive-grade SiC diodes**

**SiC MOSFET**

**APPLICATIONS:** Charger for electric vehicles, on-board chargers  
**FEATURES:** High frequency, high efficiency with SiC semiconductors  
**BENEFITS:** Compact, small volume



**Ultrafast Diodes/Rectifiers**



Manufacturer	Series	Description
ROHM	SCSxxx	SiC Schottky Barrier Diodes, 650 V, 1200 V
STM	STTHxxx, STPSCxxx	Si FRD and SiC Schottky Diodes, 600 V, 650 V, 750 V, 1200 V
Infineon	CoolSiC™ Diode	SiC Schottky Diodes, 650 V, 1200 V

**Power MOSFETs**



Manufacturer	Series	Description
ROHM	SCTxxx	SiC Power MOSFET, 650 V, 1200 V, 1700 V
STM	SCTWxxx	SiC Power MOSFET, 650 V, HIP247™
Infineon	CoolMOS™ CPA, CFDA	Si Power MOSFET, 600 V, 650 V
Infineon	CoolSiC™ MOSFET	SiC Power MOSFET, 1200 V

**Power Film Capacitors**

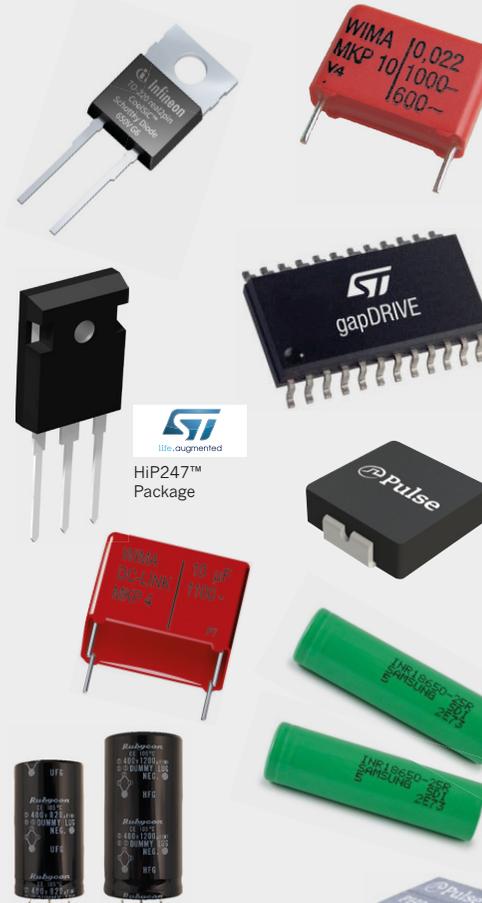


Manufacturer	Series	Description
AVX	FHC1, FHC2	DC-Link capacitor for EV/HEV
WIMA	DC-LINK MKP4	High voltage up to 1500 V, low ESR, long life
Vishay	MKP1848 DC-Link	High voltage up to 1200 V, low ESR, high current
Vishay	MKT1820	High voltage up to 1000 V, 125 °C

**Electrolytic Capacitors**



Manufacturer	Series	Description
Rubycon	VXG / HFG	Miniaturized Long Life / 4-pin snap-in, Long Life



HIP247™ Package



PH9500NL



PH9496NL



PA1005QNL



PH0416NL



PH9363NL

**LLC Resonant Capacitors**



Manufacturer	Series	Description
WIMA	MKP10, FKP1	Low ESR Polypropylene for high voltage AC/Pulse operation
Vishay	MKP385	For AC & Pulse, metallized Polypropylene

**Isolated Gate Drivers**



Manufacturer	Series	Description
ROHM	BM6Lxxx	Single channel isolated gate driver
STM	STGAP1S	Single channel isolated gate driver
Infineon	EiceDriver™	Single & dual channel isolated gate drivers
Toshiba	TB9150	Single channel IGBT pre-driver with flyback controller

**Power Inductors and Transformers**



Manufacturer	Series	Description
Pulse	PH9363NL, PH9496NL, PH0416NL	High isolation fly-back transformers for gate drivers
Pulse	PA434x, PA45x	Molded power inductors
Pulse	PH9500NL, PA1005QNL	SMD current sense transformers
Pulse	Custom designed	DC/DC and LLC transformers, up to 10 kV isolation

**Li-Ion Battery**



Manufacturer	Series	Description
Samsung-SDI	Shape 18650	Li-Ion chemistry, world leading manufacturer, capacity up to 3.5 Ah per cell