



xEV OBC Recommended Products

2021.08.27

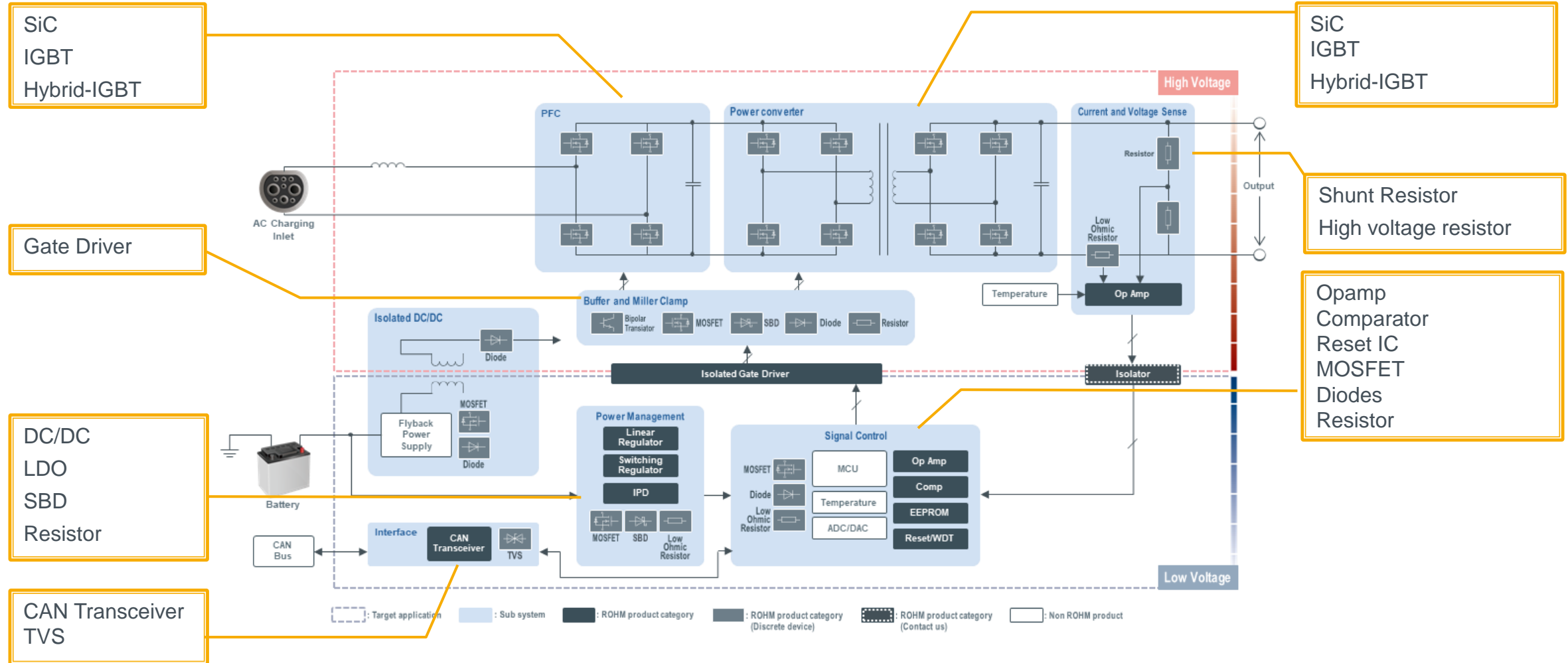
System Solutions Engineering Headquarters

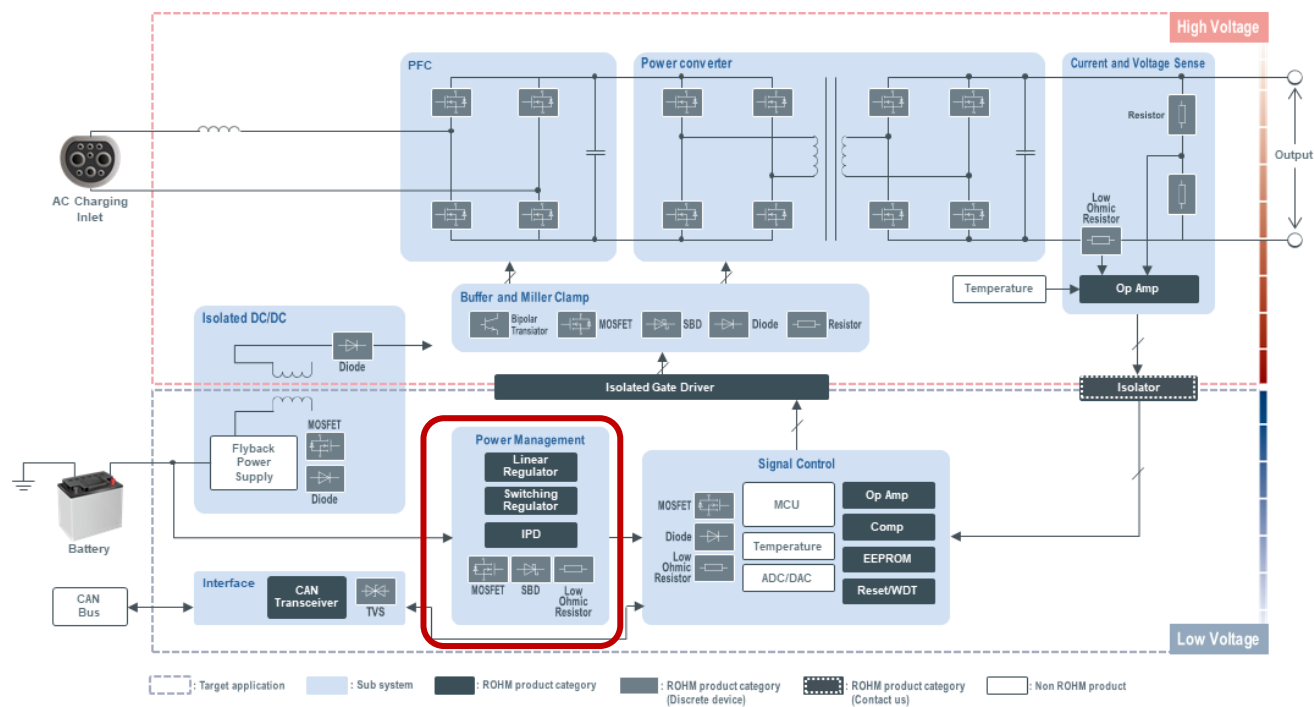
FAE1 Dept.

High Power FAE Division

Electric Powertrain Group

xEV OBC -Summary of Recommended Products





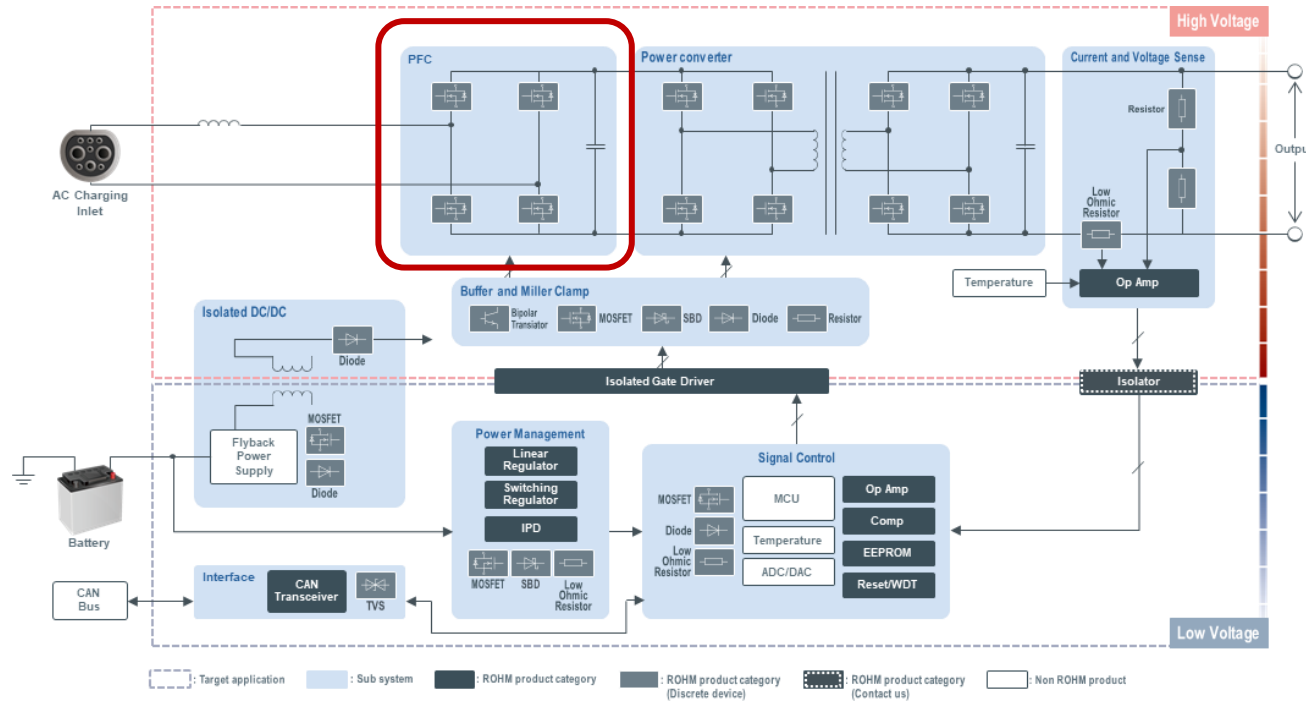
Power Management Block

Regulator line up (DCDC, LDO, PMIC etc.)

Category	Product No	feature
DC/DC	BD9Pxx5xxx-C	40V rating, 2.2MHz, 1/2/3A
DC/DC	BD906x0xxx-C	36V rating, 50-600KHz, 1/2/4A
LDO	BD4xxMxyy Series	42V rating, 200/500mA, LDO
LDO	BD7xxLxyy Series	45V rating 200/500mA, Iq=6A, LDO
LDO	BD425x0yyy Series	Tracker, 50/70/250/400mA
LDO	BD4269yyy-C	5V LDO + Reset + comparator
LDO	BD4271yyy-C	5V LDO + Reset +WDT
LDO	BD4275yyy-C	5V-LDO + Reset

Surrounding parts for DC/DC (SBD, Diode, etc.)

Category	Product No	feature
SBD	RB Series	>10A SBD
Resistor	MCR03 Series	1608 size



PFC block

For Totem-pole PFC Topology

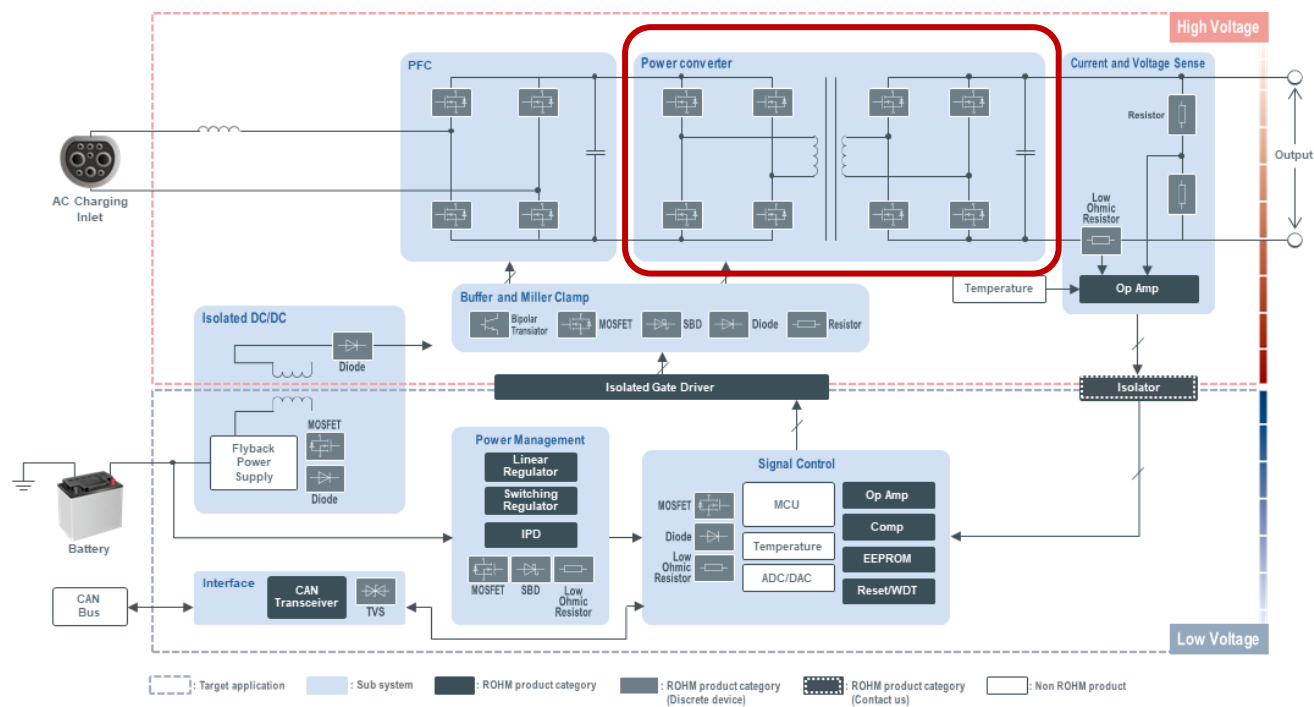
Category	Product No	feature
SiC MOSFET	SCT3xxxAx	650V SiC-MOSFET
Hybrid IGBT	RGWxxxx65C	650V Hybrid-IGBT
IGBT	RGWxxxx65D	650V IGBT
Gate Driver	BM61xx Series	

For 3Phase PFC

Category	Product No	feature
SiC MOSFET	SCT3xxxKx	1200V SiC-MOSFET
Gate Driver	BM61xx Series	

For Interleave PFC (Uni-direction)

Category	Product No	feature
SiC MOSFET	SCT3xxxAx	650V SiC-MOSFET
IGBT	RGWxxxx65D	650V IGBT
SiC-SBD	SCS2xxAx	650V/1200V SBD
FRD	RFUH/RFS Series	600V FRD
Gate Driver	BM61xx Series	



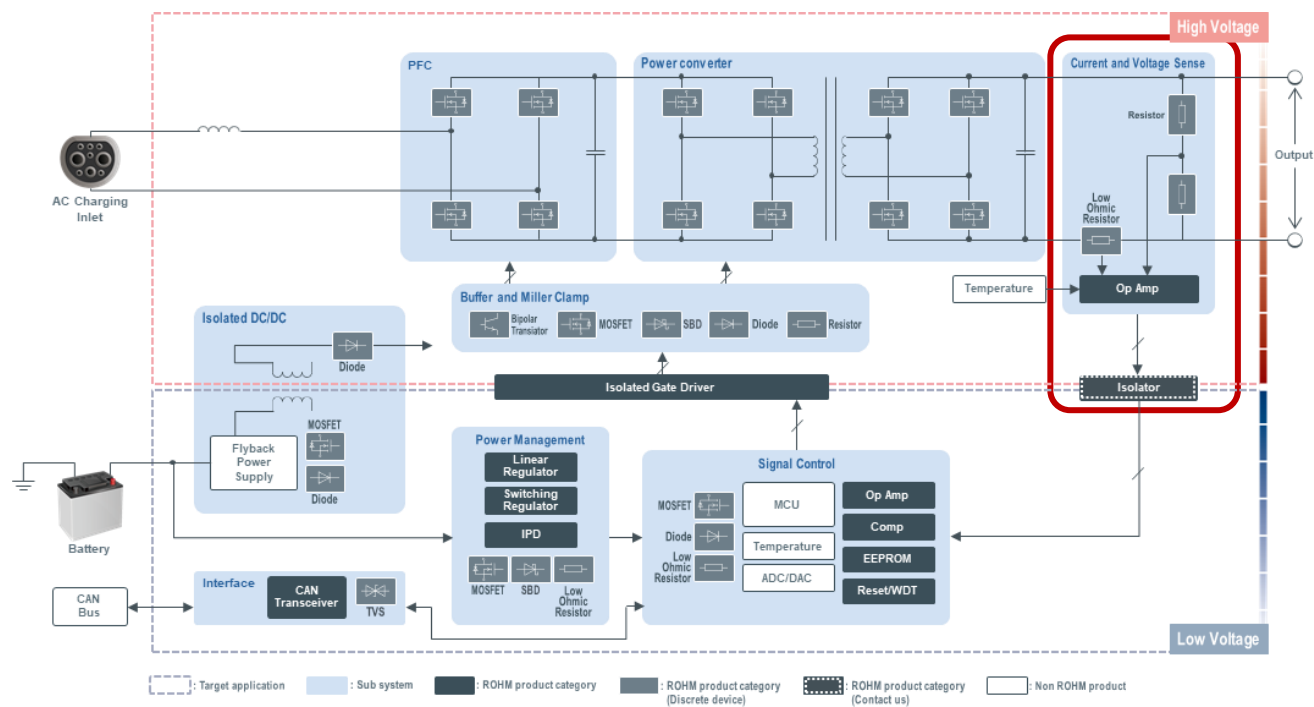
DCDC block

For Bi-directional Topology

Category	Product No	feature
SiC MOSFET	SCT3xxxAx	650V SiC-MOSFET
Hybrid IGBT	RGWxxxx65C	650V Hybrid-IGBT
Gate Driver	BM61xx Series	

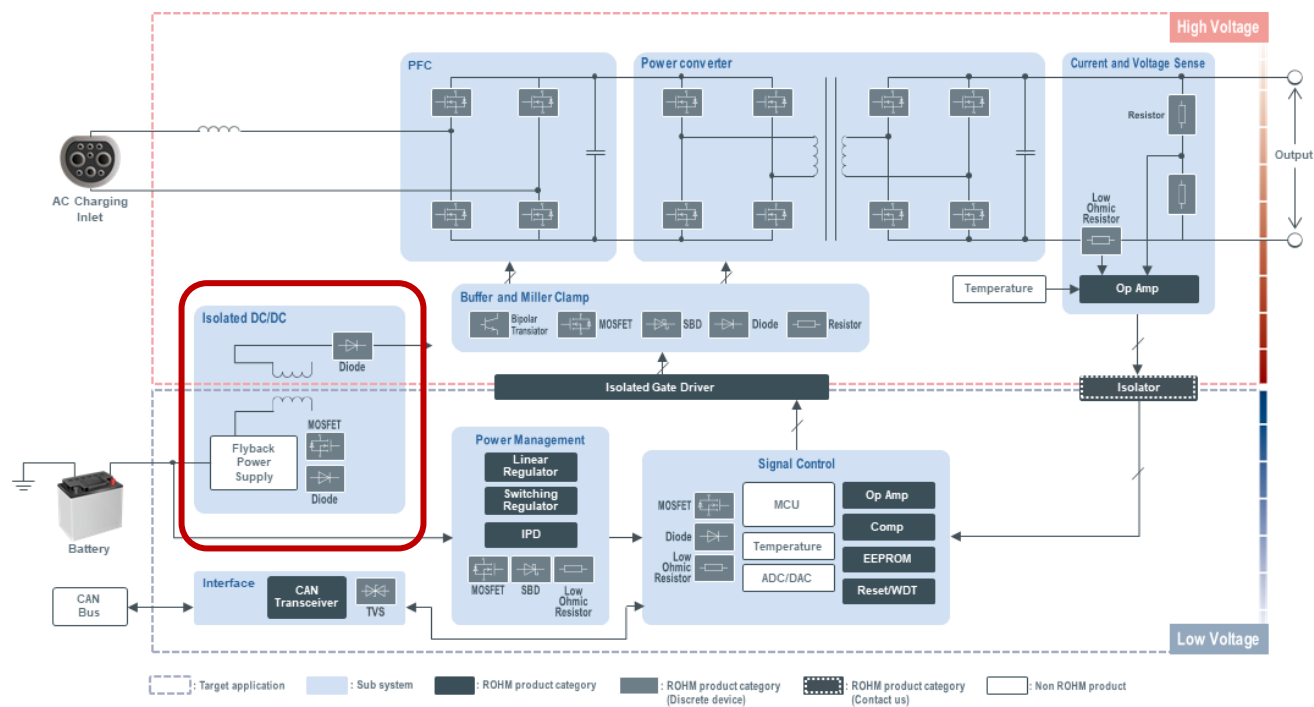
For Uni directional Topology

Category	Product No	feature
SiC-SBD	SCS2xxAx	650V/1200V SBD
FRD	RFN,RFL series	600V FRD
Gate Driver	BM61xx Series	



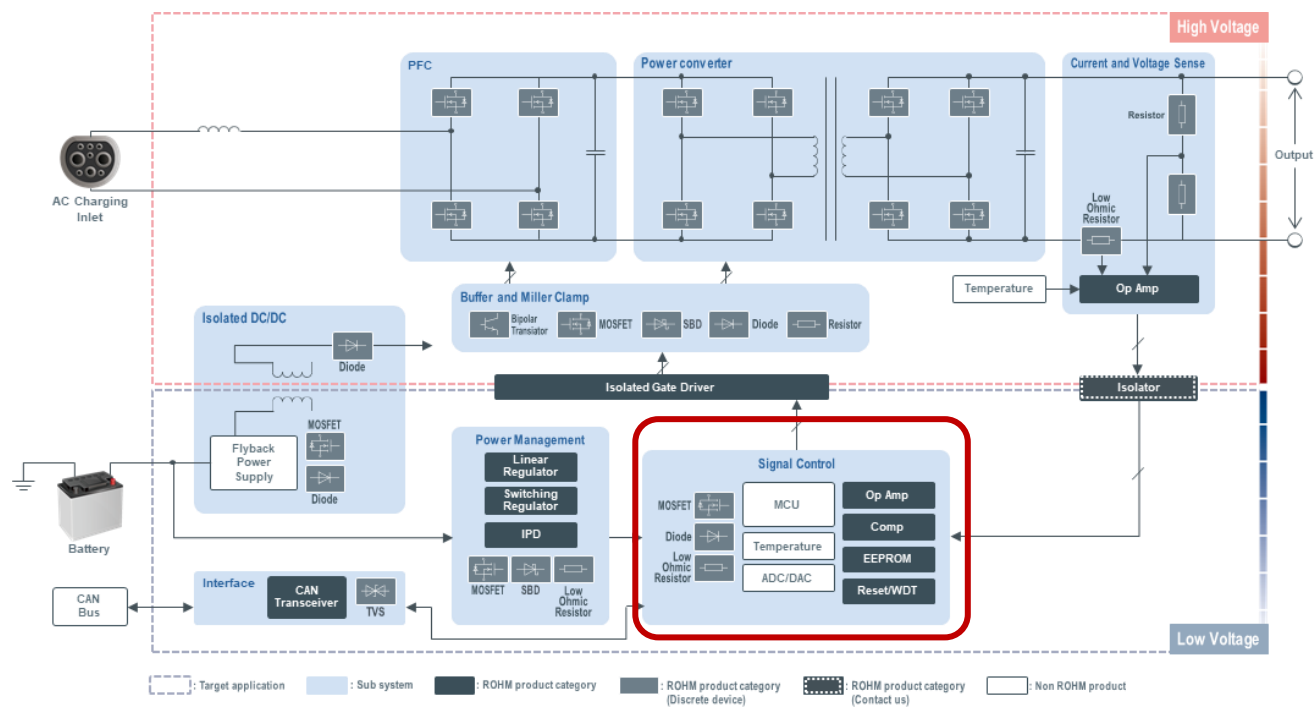
Current & Voltage sense block

Category	Product No	feature
Shunt Res.	PSR Series	High power, low ohmic
Shunt Res.	PMR Series	High power
H.V. Res.	KTR Series	High Voltage resistor
Opamp	LMR180x Series	Low noise, Low offset
Opamp	LMRx376Y Series	Low noise, Low offset
Opamp	LMRx377Y Series	Low noise, Low offset
Opamp	BA8347xY Series	High speed
Opamp	BD8758xY Series	High speed
Opamp	LMR170x Series	High speed



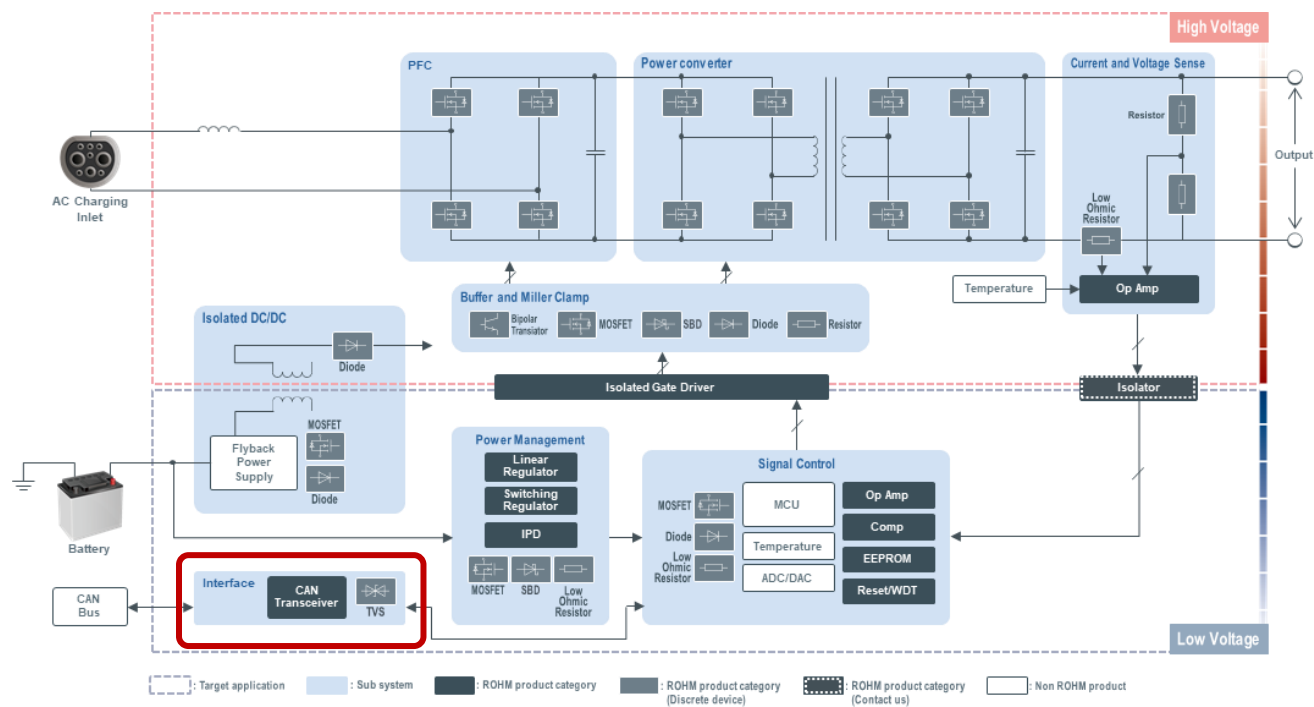
Isolated DC/DC block

Category	Product No	feature
DC/DC	BD7F20x	Fly-back regulator *Under Development
Si-FRD	RB,RF Series	SBD, FRD
Si-MOSFET	AG series	60V, 80V, 100V MOS
Resistor	Resistors	



Standard Parts

Category	Product No	feature
Opamp	EMARMOUR® Series	Ultra low EMI
Opamp	LMR1xxx	High accuracy
Comparator	EMARMOUR® Series	Ultra low EMI
Reset IC	Reset IC	
Diode	Diodes	
Resistor	Resistors	



User Interface block

Category	Product No	feature
CAN Transceiver	BD4104x Series	
TVS	RESD1CANY	

Our application support covers each step of design flow

ROHM offer various type of application support which are including design files, libraries or documents. These contents are available in web site.

