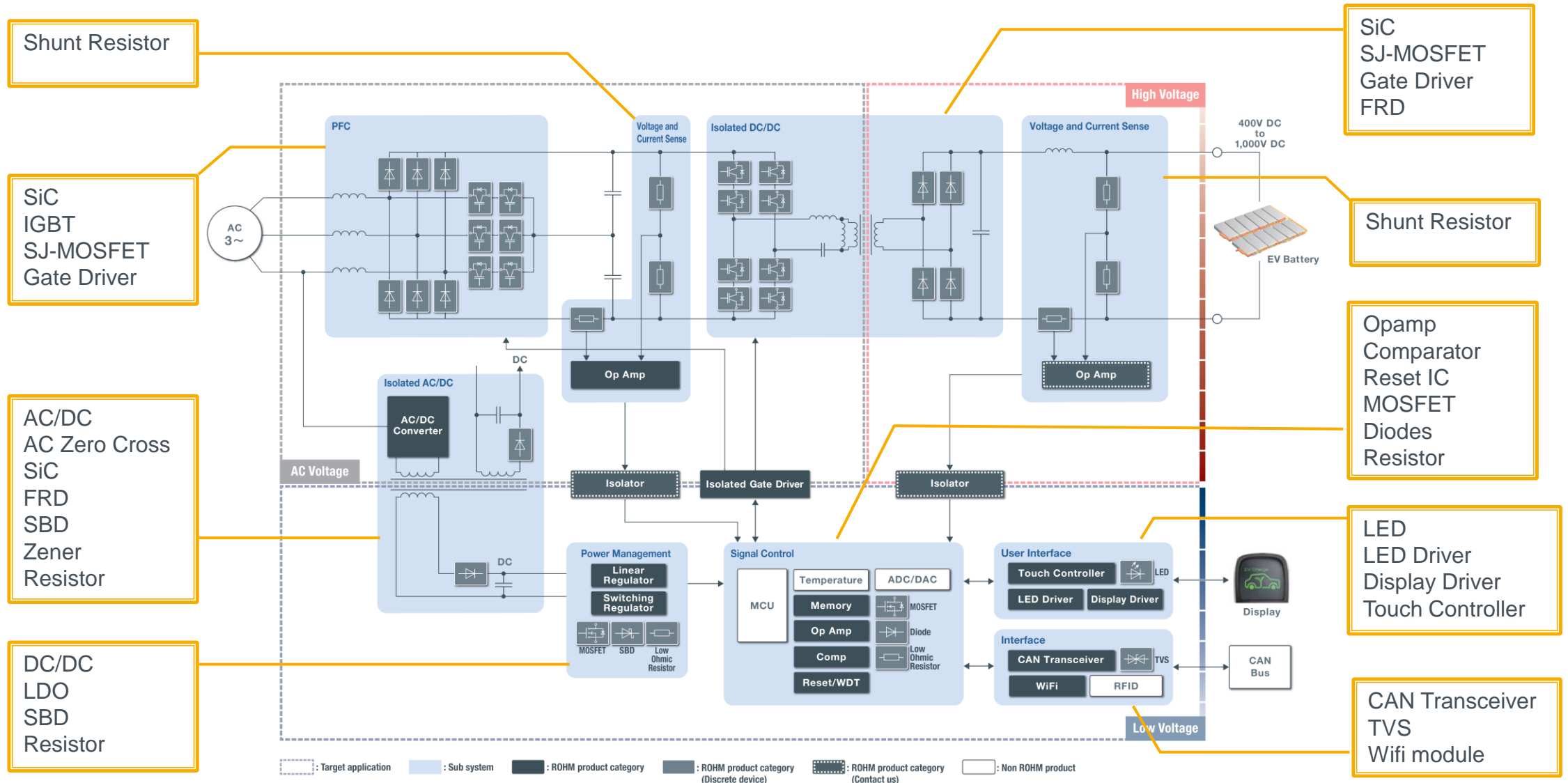


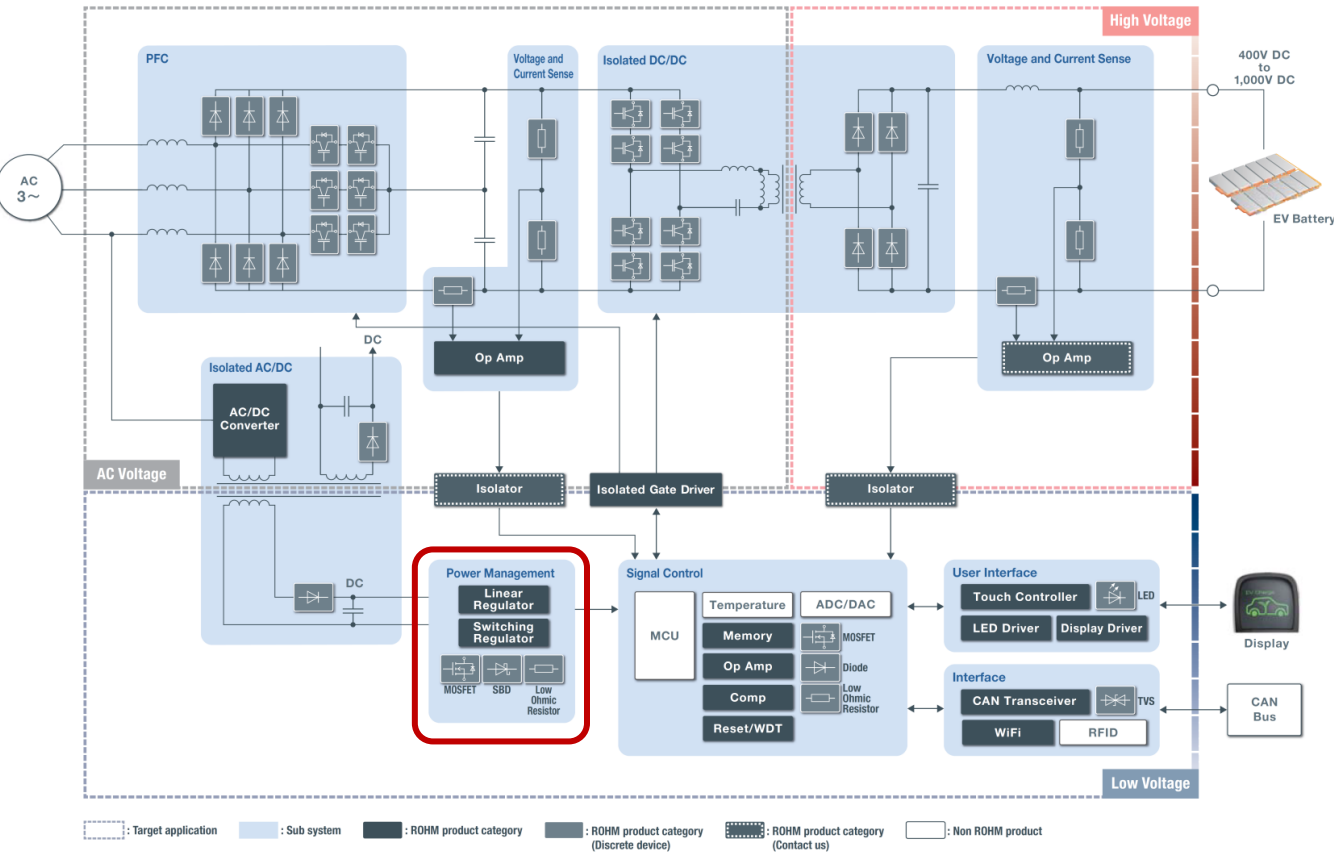


xEV Charging Station -Recommended Products

April 2021
System Solutions Engineering HQ.
Solutions Engineering Dept.

xEV Charging Station -Summary of Recommended Products





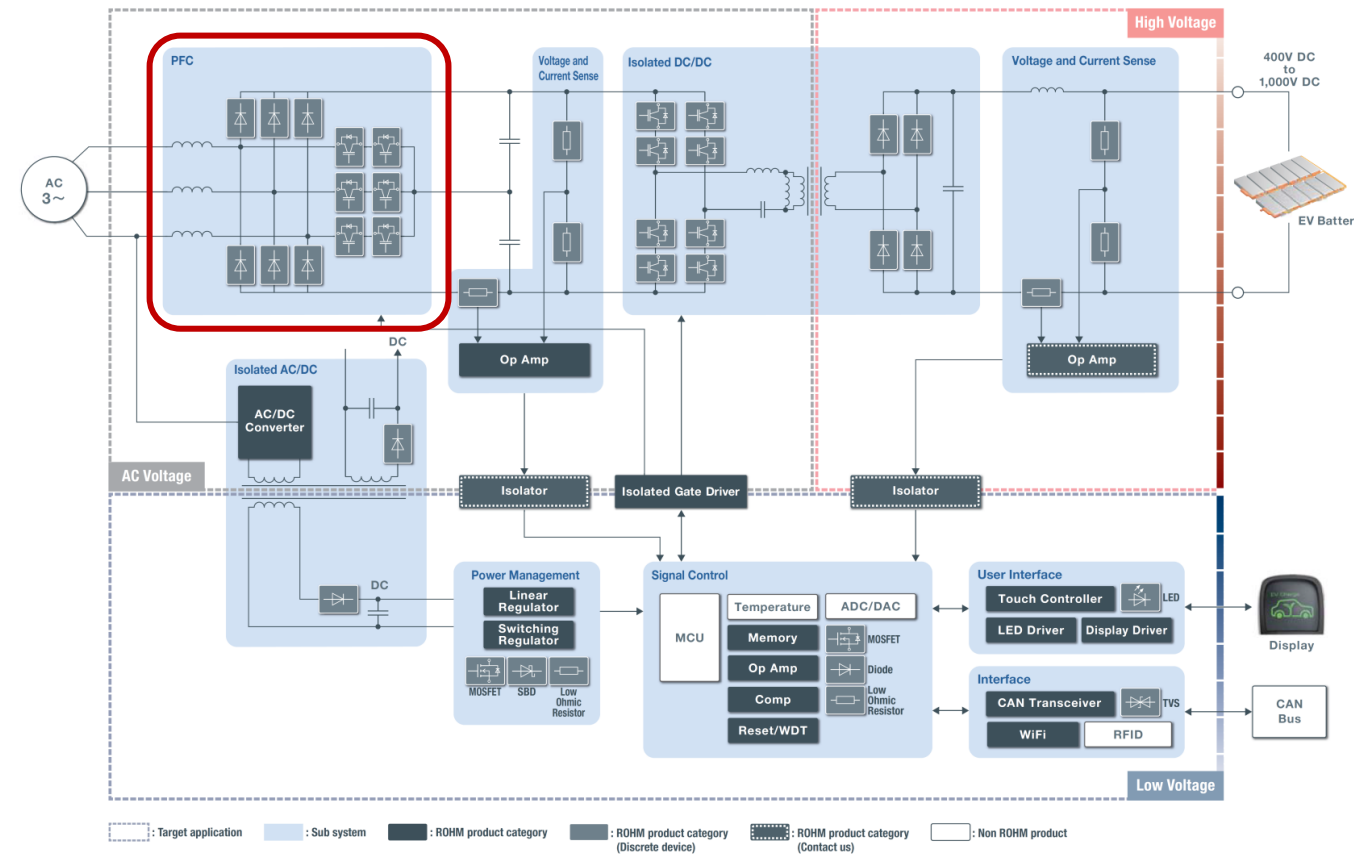
Power Management Block

Step-down converters ($V_{in}=48V$ or $24V$ to $V_o=12V, 5V, 3.3V$, etc.)
LDO ($V_{in}=12V$ to $5V, 3.3V, 1.8V, 1.2V$, etc.)

Category	Product No	feature
DC/DC	BD9G500EFJ-LA	80V rating, 5A Stepdown DC/DC
DC/DC	BD9G341AEFJ-LB	80V rating, 3A Stepdown DC/DC
DC/DC	BD9Exxx -LB Series	48V rating, Stepdown DC/DC Series
DC/DC	BD9Ax01 -LB Series	2.7 to 5.5V, 1A/3A DC/DC
DC/DC	BD9A201FP4-LBZ	5.5V 2A, small size *Under development
LDO	BDxxGxxMEFJ-LB	$V_{in}=14V$ 0.3A/0.5A/1A LDO
LDO	BDxxHxxMEFJ-LB	$V_{in}=8V$ 0.3A/0.5A/1A LDO
LDO	BDxxlxxMEFJ-LB	$V_{in}=5.5V$ 0.5A/1A LDO

SBD, Feed back Resistor of Power Management IC

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



PFC block

For Vienna Topology

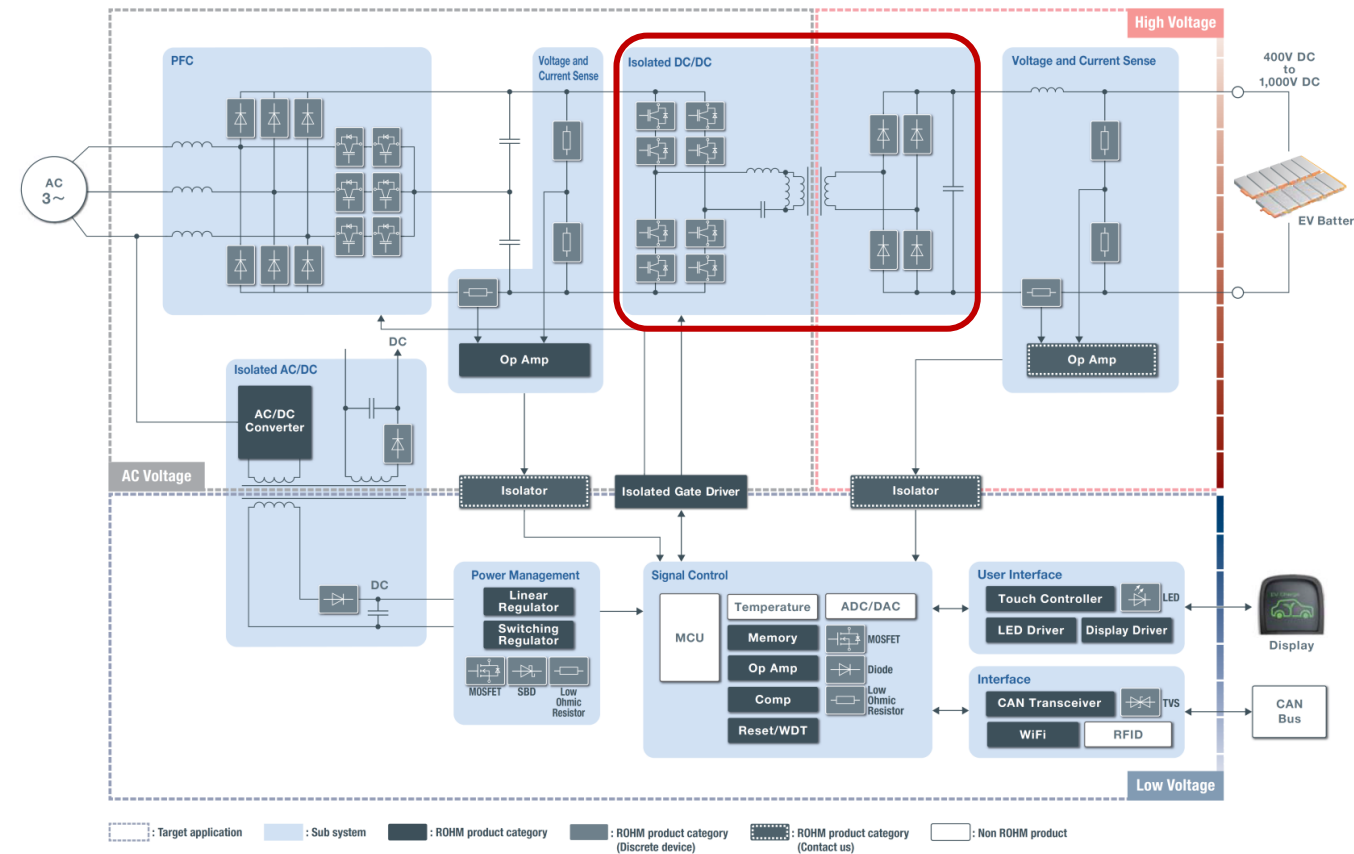
Category	Product No	Feature
SiC SBD	SCS2xxxK Series	1200V SiC-SBD
SiC MOSFET	SCT3xxxAx Series	650V SiC-MOSFET
SJ-MOSFET	R65xxKNx	650V
IGBT	RGWxxTS65D	650V Hybrid-IGBT
Gate Driver	BM61xx Series	

Bi-directional 3phase B6-PFC (<20kW)

Category	Product No	feature
SiC MOSFET	SCT3xxxKx	1200V (17 – 95A)
IGBT	RGSxxTSX2	1200V
Gate Driver	BM61xx Series	

Bi-directional 3phase B6-PFC (>20kW)

Category	Product No	feature
SiC Module	BSMxxD1xPx C /E/ G	1200V/1700V Half Bridge Module
Gate Driver	BM61xx Series	



DC/DC block

For 2-stage LLC Converter

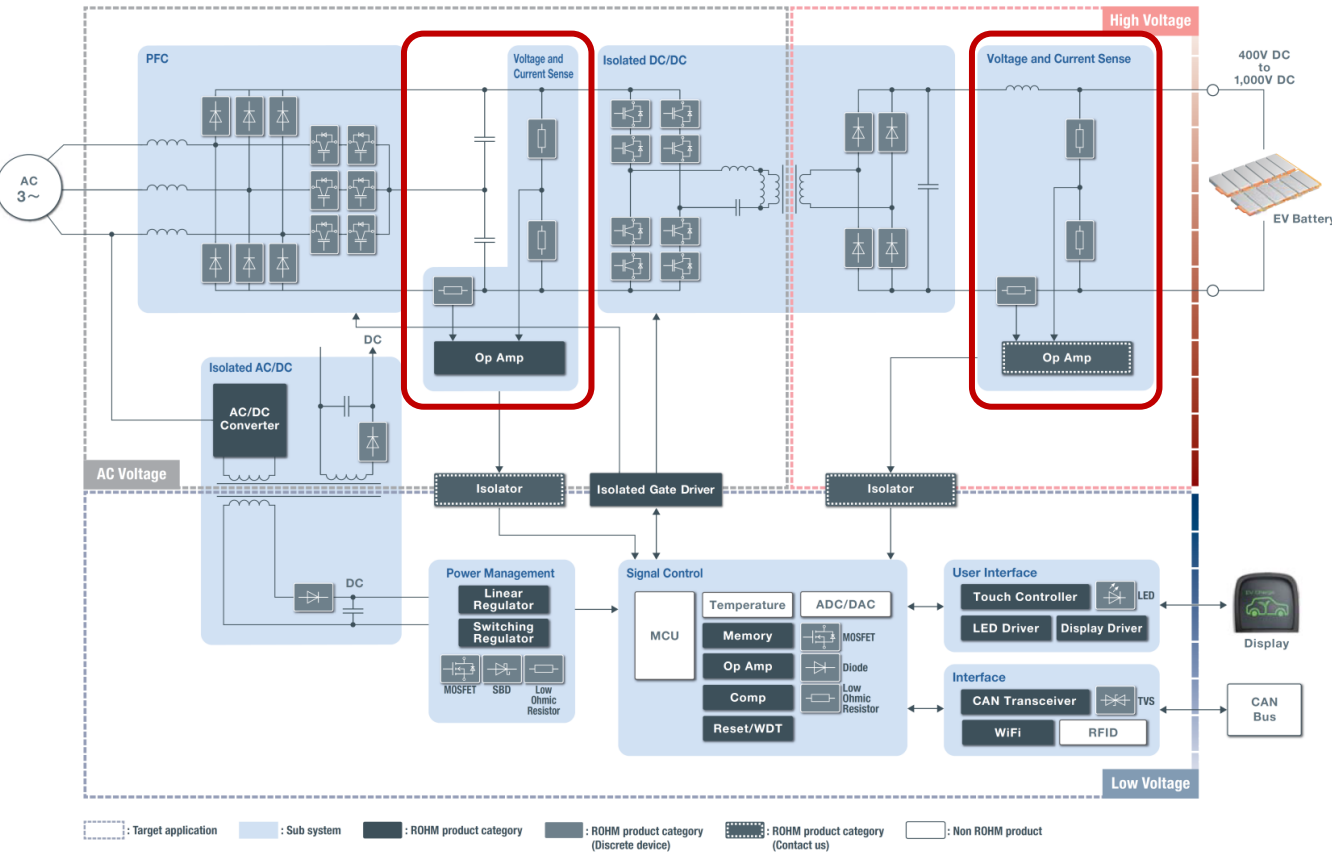
Category	Product No	feature
SJ-MOSFET	R60xxJNZ4 Series	600V SJ-MOSFET
SiC MOSFET	SCT3xxxAx Series	650V SiC MOSFET
Gate Driver	BM61xx Series	
SiC SBD	SCS3xxA Series	650V (5 – 20A)
SiC SBD	SCS2xxAE2	650V (15 – 40A)
Si-FRD	RFSxxTZ6S	650V High speed type <small>*Under Development</small>
Si-FRD	RFLxxTZ6S	650V Low Vth type <small>*Under Development</small>

For High voltage Single LLC Converter

Category	Product No	feature
SiC MOSFET	SCT3xxxK Series	1200V (17 – 95A)
Gate Driver	BM61xx Series	
SiC SBD	SCS2xxK Series	1200V (5 – 40A)

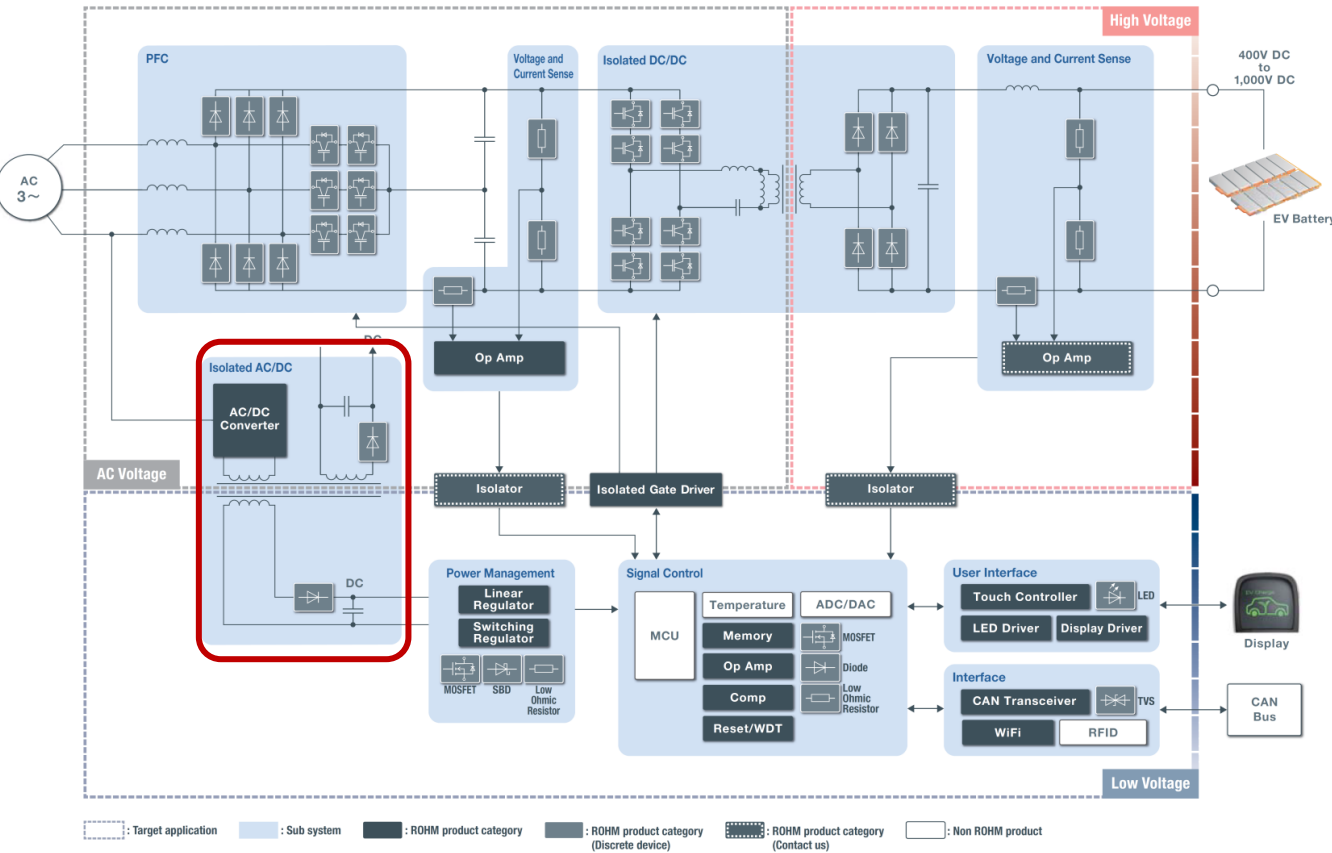
Isolated Bi-directional DC/DC

Category	Product No	feature
SiC Module	BSMxxD1xPx C /E/ G	1200V/1700V Half Bridge Module
Gate Driver	BM61xx Series	



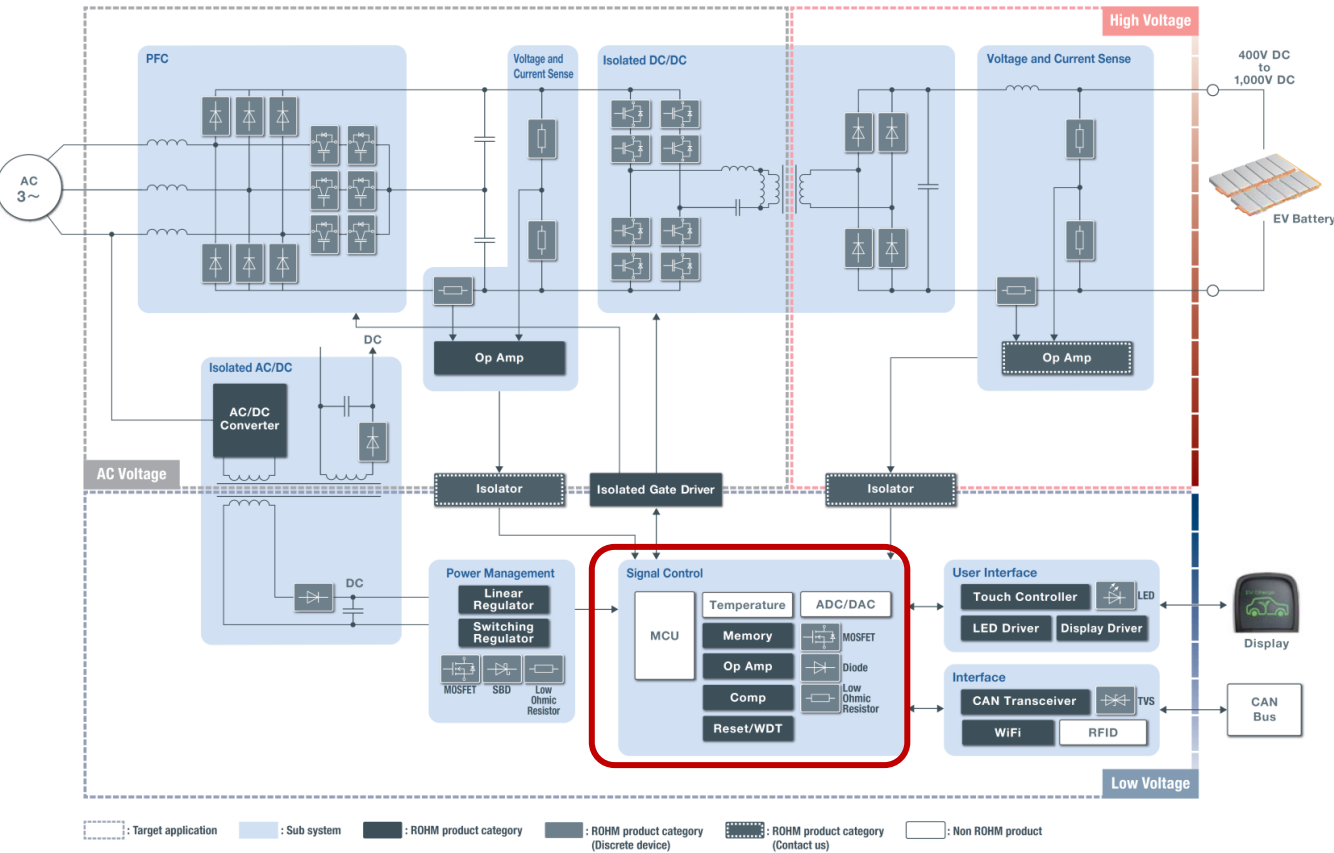
Current & Voltage sense block

Category	Product No	feature
Shunt Res.	PSR Series	High power, low ohmic
Shunt Res.	PMR Series	High power
Opamp	Contact Us	



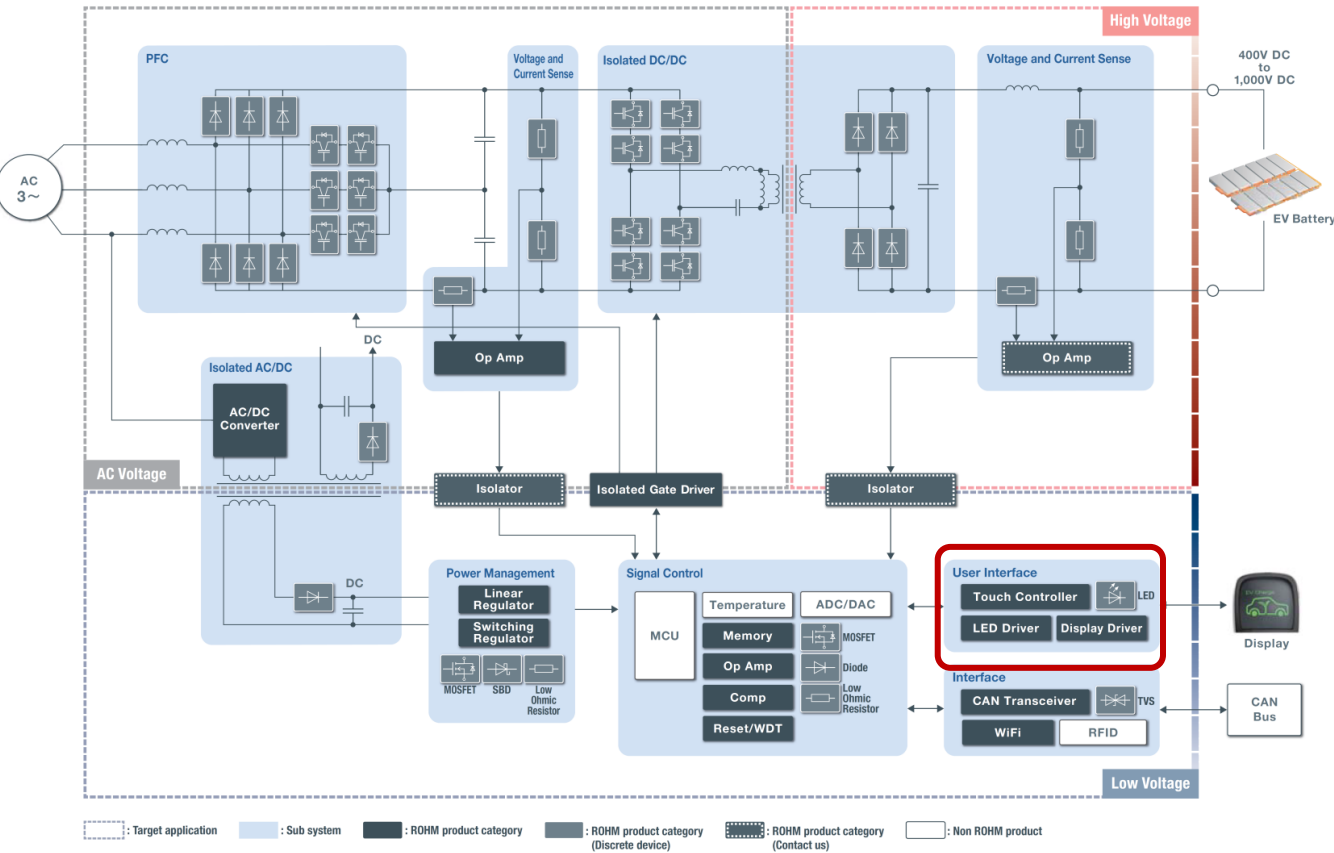
Isolated AC/DC block

Category	Product No	feature
AC/DC	BD768xFJ-LB	Controller type
AC/DC	BM2SCQ12xT-LBZ	1700V SiC integrated
Zero Cross	BM1ZxxFJ Series	AC Zero Cross detector
SiC MOSFET	SCT2xxxN Series	1700V
Si-FRD	RFL Series	650V Low Vth type *Under Development
SBD	RB Series	
Zener	KDZV Series	
Resistor	Resistors	



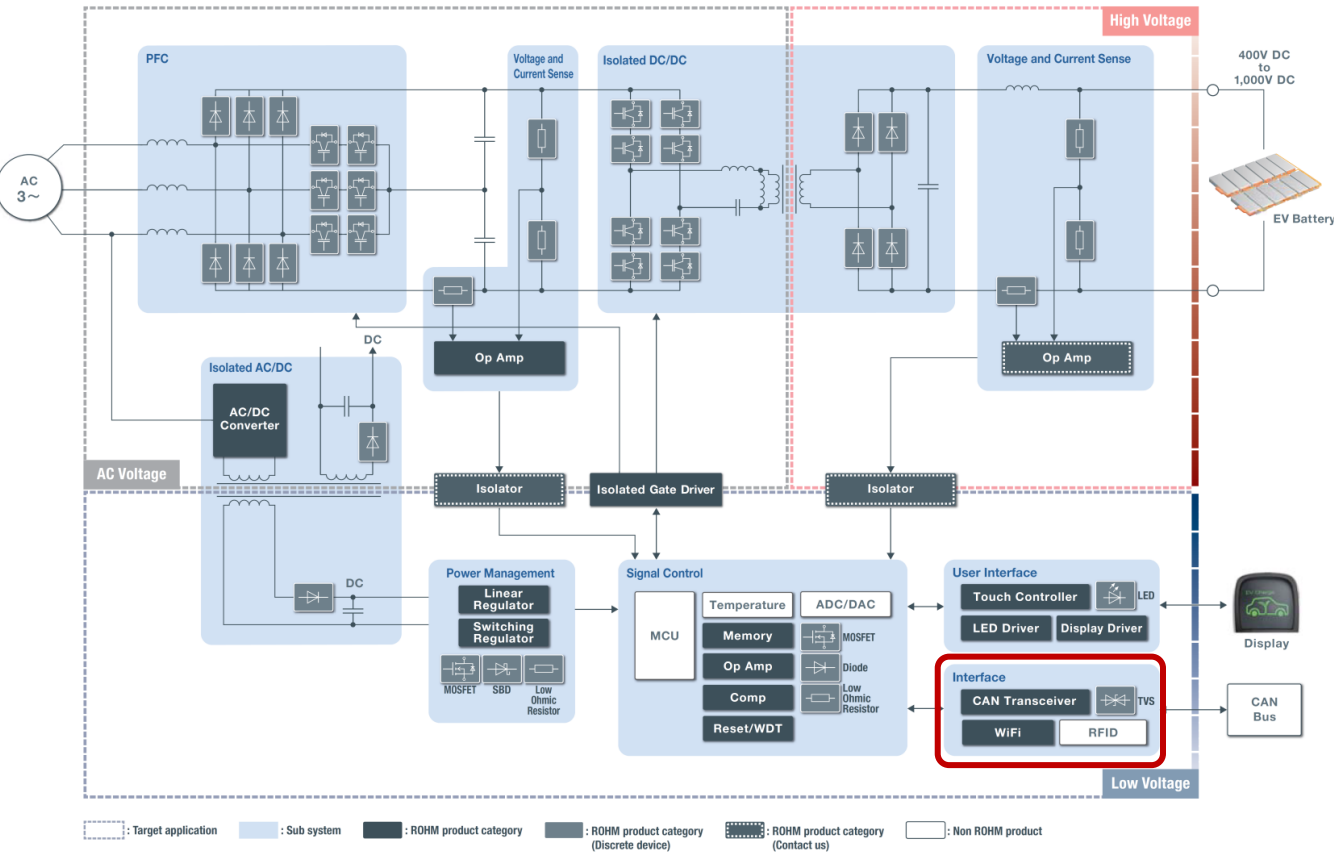
Standard Parts

Category	Product No	feature
Opamp	EMARMOUR® Series	Ultra low EMI
	LMR1xxx	High accuracy
Comparator	EMARMOUR® Series	Ultra low EMI
Reset IC	Reset IC	
MOSFET	12Vto150V MOSFET	
Diode	Diodes	
Resistor	Resistors	



User Interface block

Category	Product No	feature
LED	SML / CSL Series	
LED Driver	Boost Series	For LCD backlight
Display Driver	Lapis	
Touch Controller	BU210xx Series	



Interface block

Category	Product No	feature
CAN Transceiver	BD4104x Series	(Automotive grade)
TVS	RESD1CANY	
Wifi Module	BP35xx	

ROHM offer various type of application support which are including design files, libraries or documents. A Product page >> **DOCUMENTATION / TOOLS / EVALUATION BOARD**, etc.

