



OBC/DCDC Solution Introduction

2024.04.28

1

OBC&DCDC Total solution introduction

2

6.6kW OBC Common parts introduction

3

11/22kW OBC Common parts introduction

4

HV-12V DCDC Common parts introduction

1

OBC&DCDC Total solution introduction

2

6.6kW OBC Common parts introduction

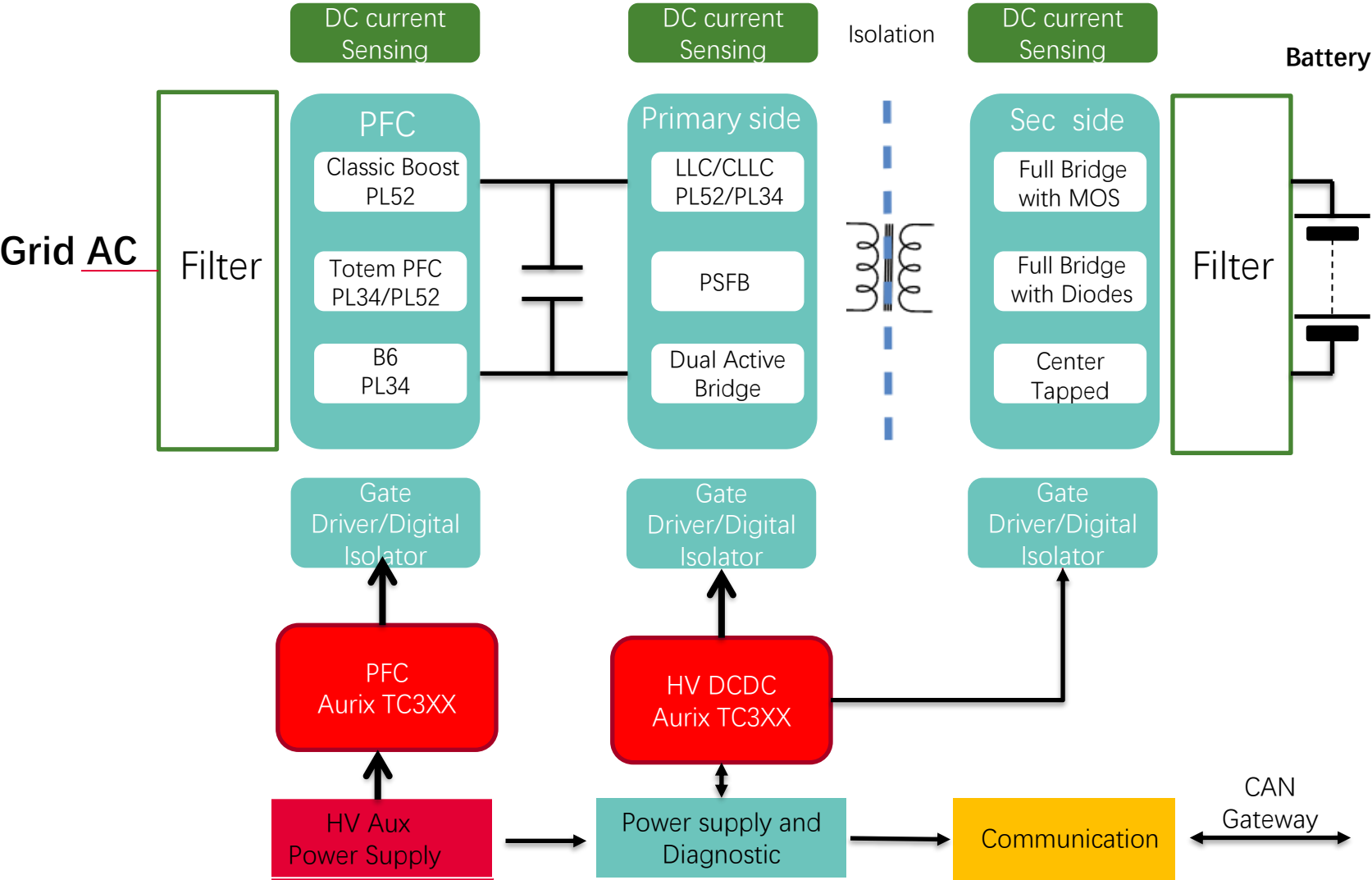
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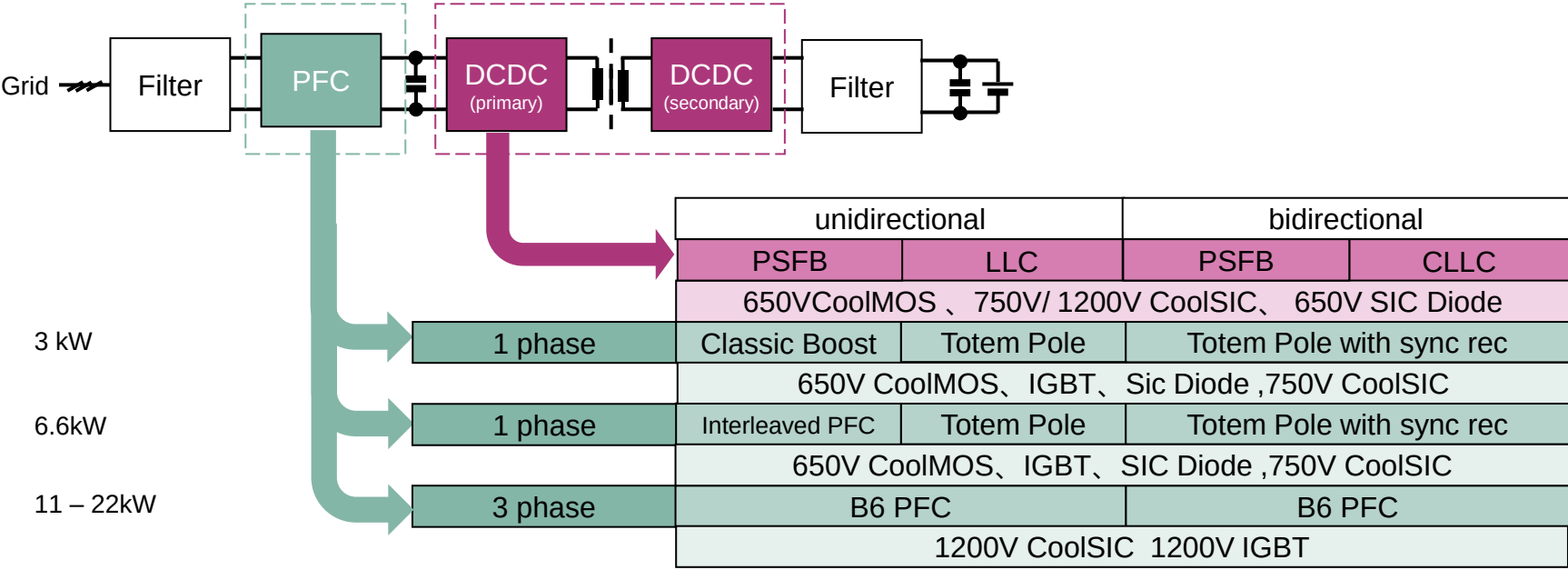
11/22kW OBC Common parts introduction

4

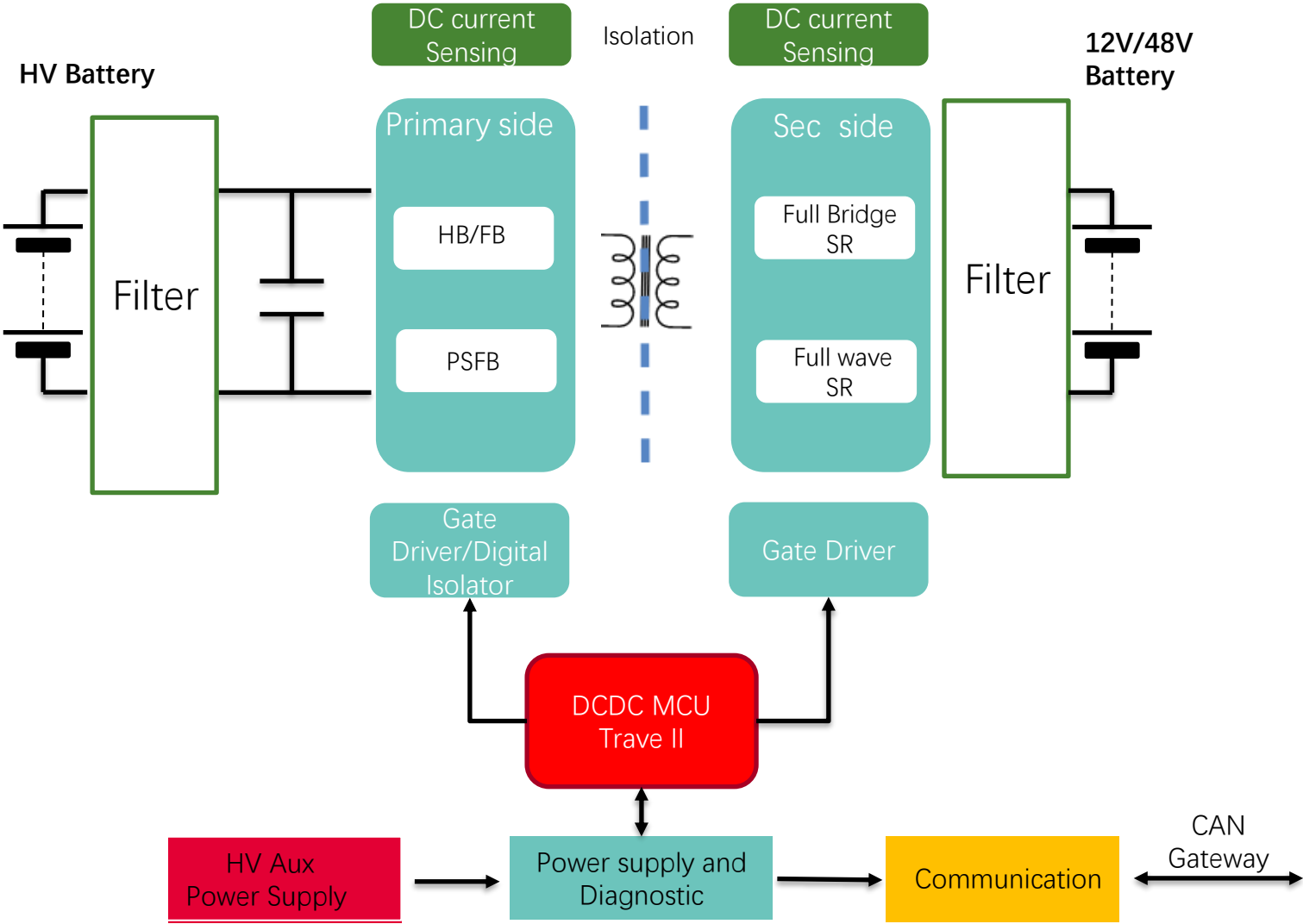
HV-12V DCDC Common parts introduction

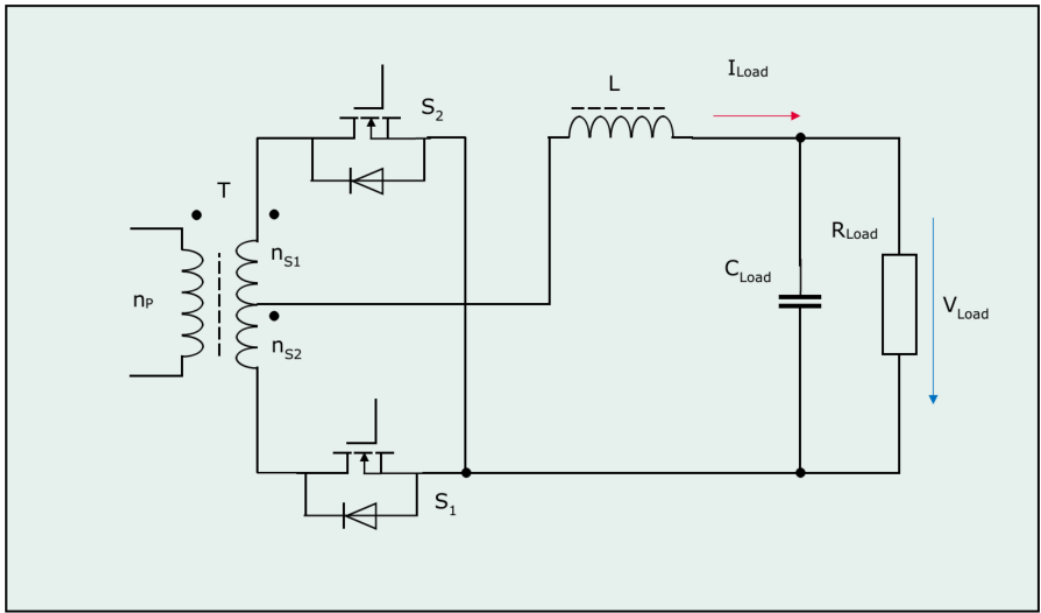
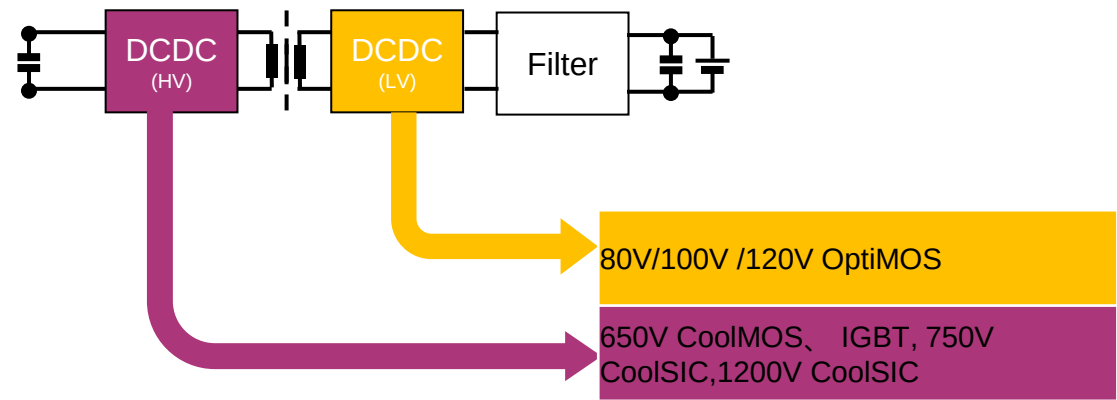
OBC Application block diagram



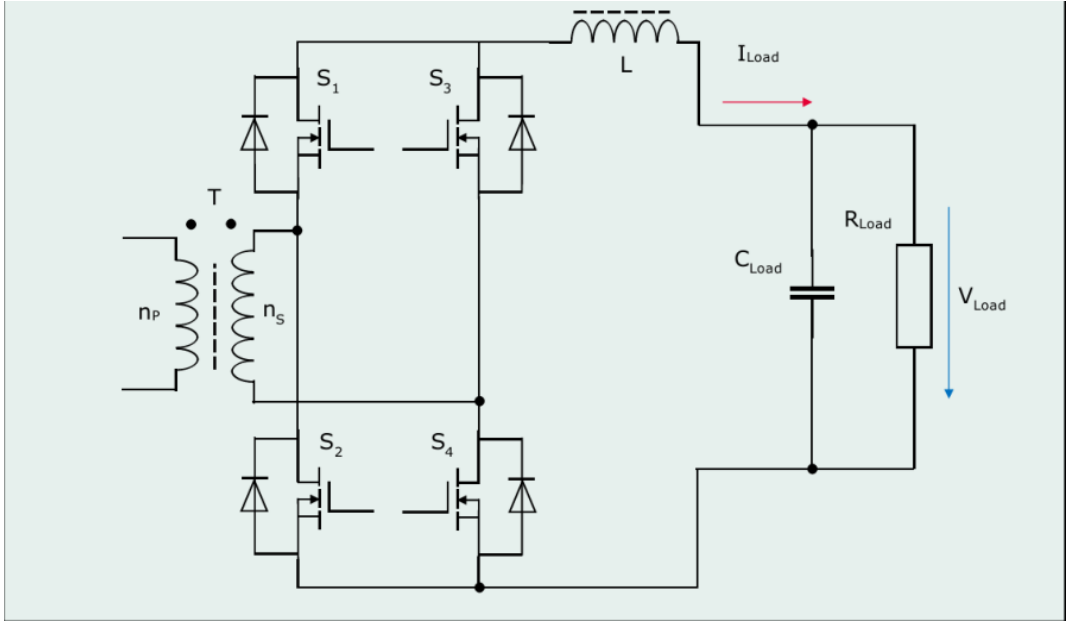


HV-12V DCDC Application block diagram





› Full wave rectifier



› Bidge rectifier

1

OBC&DCDC Total solution introduction

2

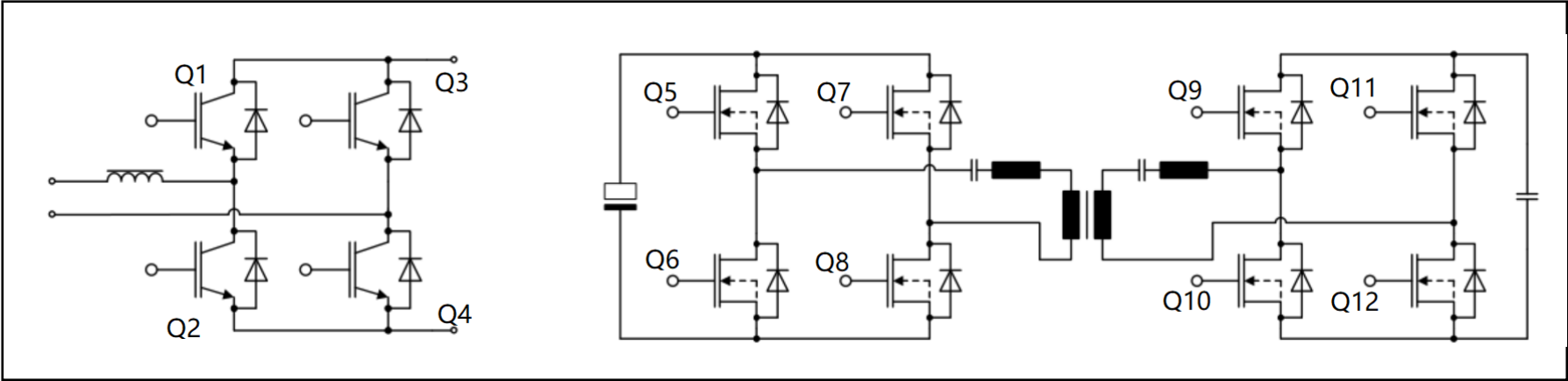
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3

11/22kW OBC Common parts introduction

4

HV-12V DCDC Common parts introduction



Fun./frq.	Device	IFX/PN*Usage
PFC	Switch (Q1、Q2)	AIKW50N65RF5/AIGW50N65F5/AIMZA75R027M1 H *2pcs
	Switch (Q3、Q4)	AIKW50N65DF5/AIKW50N65DH5*2PCS
	Driver	/
CLLC	Switch (Q5~Q8)	IPW65R050CFD7A*4pcs
	Switch (Q9~Q12)	AIMZH120R120M1T *4PCS (800V Bat) IPW65R050CFD7A*4pcs (400V Bat)
	Driver	2EDR8259XQ1
MCU	Aurix TC3XX	

1

OBC&DCDC Total solution introduction

2

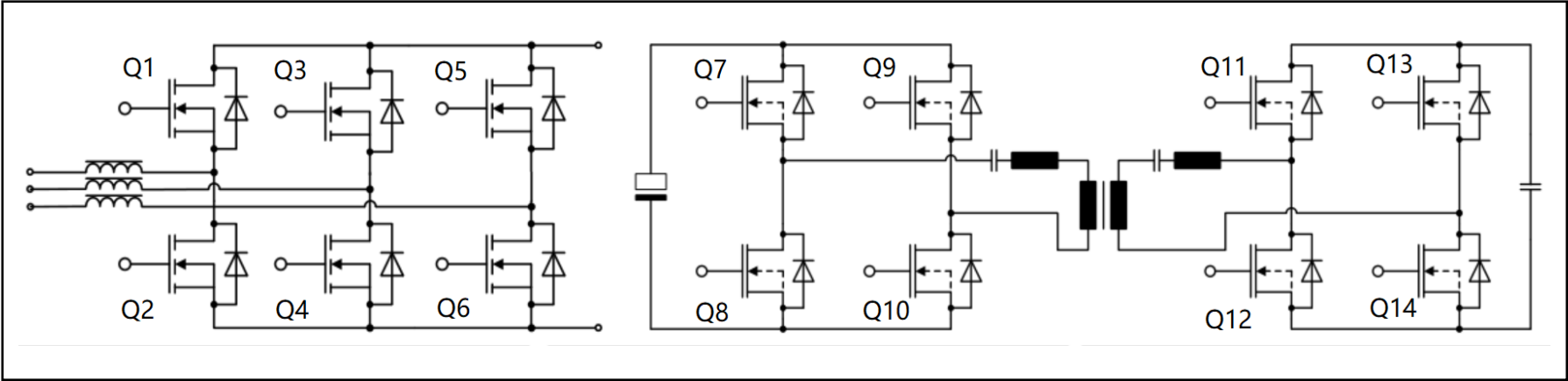
6.6kW OBC Common parts introduction

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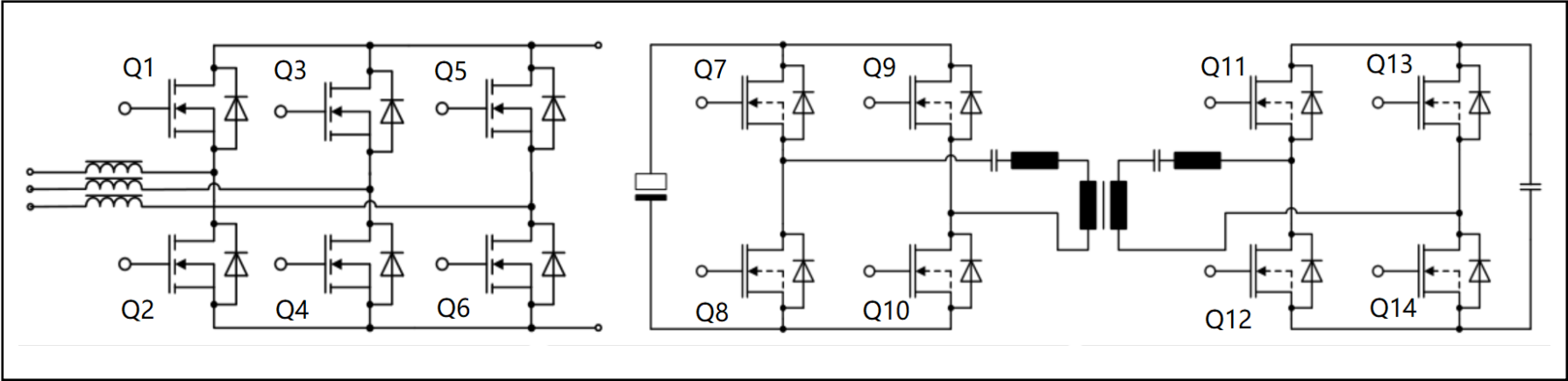
11/22kW OBC Common parts introduction

4

HV-12V DCDC Common parts introduction



Fun./frq.	Device	IFX/PN*Usage
PFC	Switch(Q1~Q6)	AIMZH120R040M1T*6pcs
	Driver	/
CLLC	Switch(Q7~Q10)	AIMZH120R080M1T*4pcs
	Switch(Q11~Q14)	AIMZH120R080M1T*4pcs (800V Bat) AIMZA75R040M1H*4PCS/IPW65R050CFD7A*4PCS (400V Bat)
	Driver	2EDR8259XQ1
MCU	Aurix TC3XX	



Fun./frq.	Device	IFX/PN*Usage
PFC	Switch(Q1~Q6)	AIMZH120R020M1T*6pcs
	Driver	/
CLLC	Switch(Q7~Q10)	AIMZH120R030M1T*4pcs
	Switch(Q11~Q14)	AIMZH120R030M1T*4pcs (800V Bat) AIMZA75R027M1H*4PCS(400V Bat)
	Driver	2EDR8259XQ1
MCU	Aurix TC3XX	

1

OBC&DCDC Total solution introduction

2

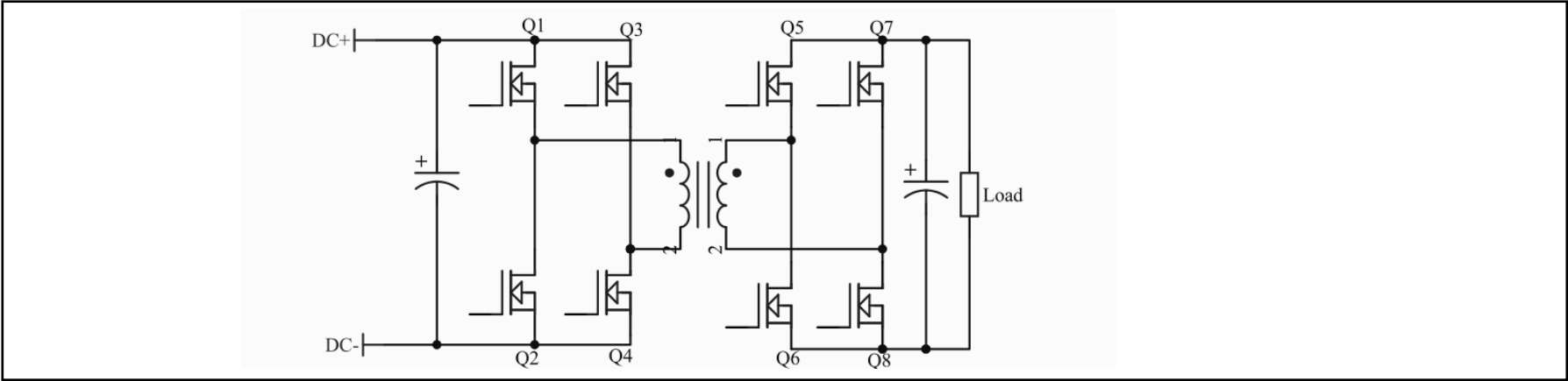
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3

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4

HV-12V DCDC Common parts introduction



Fun./frq.	Device	IFX/PN*Usage
FB Pri	Switch(Q1~Q4)	1200V Cool SIC(800V Bat) 650V CoolMOS/750VCoolSIC/ (400V Bat)
	Driver	2EDB8259YTQ1
Sec SR	Switch(Q5~Q8)	80V/100V/120V OptiMOS(TOLL Package) As IAUT260N10S5N019 /IAUT300N10S5N015
	Driver	2EDB8259YTQ1
MCU	Trave II	

A close-up photograph of two people in business attire shaking hands. The person on the left is wearing a dark blue suit jacket and a silver watch. The person on the right is wearing a dark blue jacket. The background is blurred, showing other people in an office setting.

Thank you!

威健OBC业务联系窗口:

PM Eason Lu 18616956960 eason.lu@weikeng.com.cn

FAE Billy Zhan 17821051716 billy.zhan@weikeng.com.cn