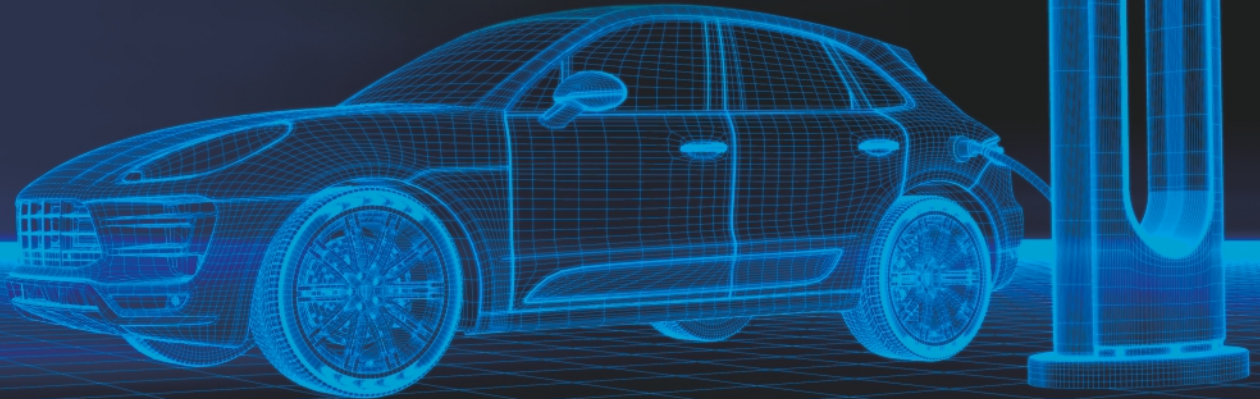


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POWER SOLUTION FOR EV APPLICATION

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ON-BOARD DC-DC CONVERTER

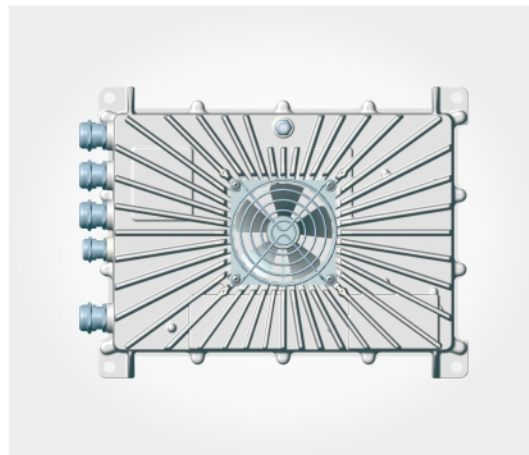
On-board DC-DC Converter — 6kW

Product features:

- Wide input voltage range: 300~850Vdc
- Small size, and convenient for installation
- Advanced digital–analogy mixed control technology, input & output separated, safe and reliable
- Protective functions: input overvoltage / undervoltage protection, output overcurrent / overvoltage protection, over-temperature protection, and short-circuit protection
- Encapsulating pattern: optional air-cooling

Main specifications & parameters:

Type	Items	Value	Unit
Input	Input voltage range	300~850	Vdc
	Max. input current	25	A
Output	Rated output voltage	27/48	Vdc
	Rated output current	214/125	A
	Typical efficiency	94	%
Protection	Input OVP	850 (± 15)	Vdc
	Input UVP	300 (± 10)	Vdc
	Output OCP	220/130	A
	Output OVP	30/58	Vdc
Others	Operating temperature	-25~+70	°C



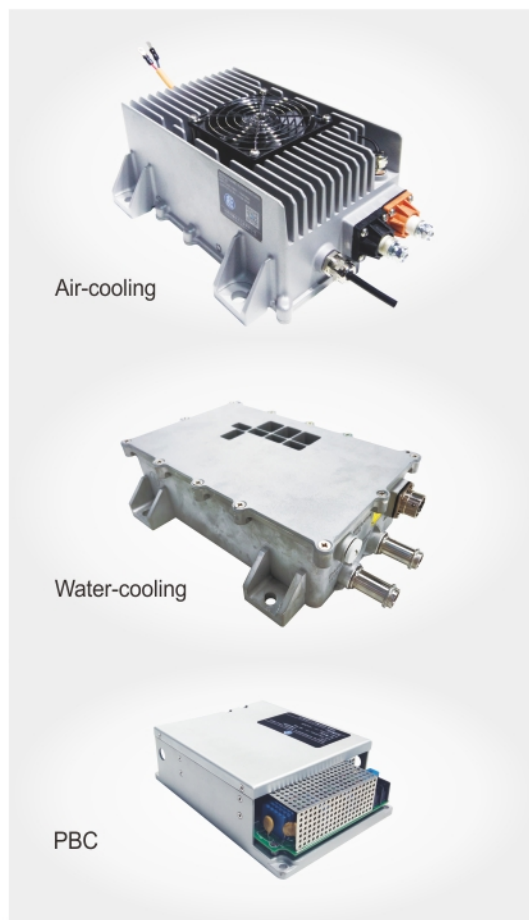
On-board DC-DC Converter — 3kW/3.5kW

Product features:

- Wide input voltage range: 200~850Vdc
- Small size, and convenient for installation
- High conversion efficiency: up to 97%
- Advanced digital–analogy mixed control technology, input & output separated, safe and reliable
- Protective functions: input overvoltage / undervoltage protection, output overcurrent / overvoltage protection, over-temperature protection, and short-circuit protection
- Encapsulating pattern: water-cooling or air-cooling

Main specifications & parameters:

Type	Items	Value	Unit
Input	Input voltage range	200~850	Vdc
	Max. input current	11	A
Output	Rated output voltage	27.5	Vdc
	Rated output current	110/125	A
	Peak output current	180	A
	Efficiency	97	%
Others	Operating temperature	-40~+60	°C



On-board DC-DC Converter — 2kW/2.5kW

Product features:

- Wide input voltage range: 115~750Vdc
- Small size, and convenient for installation
- High conversion efficiency: up to 95%
- Advanced digital–analogy mixed control technology, input & output separated, safe and reliable
- Protective functions: input overvoltage / undervoltage protection, output overcurrent / overvoltage protection, over–temperature protection, and short–circuit protection
- Encapsulating pattern: water–cooling or air–cooling

Main specifications & parameters:

Type	Items	Value	Unit
Input	Input voltage	540	Vdc
	Max. input current	11	A
Output	Rated output voltage	13.8	Vdc
	Rated output current	180	A
	Peak output current	220	A
	Efficiency	93	%
Others	Operating temperature	–40~+60	°C



On-board DC-DC Converter — 1kW / 1.5kW / 2kW

Product features:

- Wide input voltage range: 60~850Vdc
- Small size, and convenient for installation
- High conversion efficiency: up to 97%
- Advanced digital–analogy mixed control technology, input & output separated, safe and reliable
- Protective functions: input overvoltage / undervoltage protection, output overcurrent / overvoltage protection, over–temperature protection, and short–circuit protection
- Encapsulating pattern: natural cooling or air–cooling

Main specifications & parameters:

Type	Items	Value	Unit
Input	Input voltage range	60~850	Vdc
	Max. input current	2	A
Output	Rated output voltage	14 / 28	Vdc
	Rated output current	76 / 38	A
	Typical efficiency	96	%
Protection	Input OVP	750 (± 15)	Vdc
	Input UVP	190 (± 10)	Vdc
	Output OCP	39~42	A
	Output OVP	31~33	Vdc
Others	Operating temperature	–40~+60	°C



On-board DC-DC Converter — 600W

Product features:

- Wide input voltage range: 18~750Vdc
- Small size, and convenient for installation
- Advanced digital–analogy mixed control technology, input & output separated, safe and reliable
- Protective functions: input overvoltage / undervoltage protection, output overcurrent / overvoltage protection, over-temperature protection, and short–circuit protection
- Encapsulating pattern: optional air–cooling

Main specifications & parameters:

Type	Items	Value	Unit
Input	Input voltage	18~750	Vdc
	Max. input current	1.4	A
Output	Rated output voltage	12/27	Vdc
	Rated output current	42/20	A
	Typical efficiency	94	%
Protection	Input OVP	750 (± 15)	Vdc
	Input UVP	400 (± 10)	Vdc
	Output OCP	22~24	A
	Output OVP	30~33	Vdc
Others	Operating temperature	–25~+70	°C



BIDIRECTIONAL DC-DC CONVERTER



Main specifications & parameters:

Electric category	Specific class	Specifications	
		120A	350A
DC voltage	Input side DC voltage (V)	0~800Vdc (adjustable)	
	Output side DC voltage (V)	0Vdc–output side DC voltage (adjustable)	
DC current	Input end DC current (A)	≤ 120A	≤ 350A
	Output end DC current (A)	≤ 120A	Rated at 350A, can increase to 370A, and instantaneously to 400A
Conversion efficiency	Input at 600V VS output at 300V	95%	
Max. DC voltage transformer ratio	High voltage: low voltage	10:1	
Rated power	Output power	30kW, 40kW max. (output voltage at 300V)	160kW, 180kW max. (output voltage at 500V)
Dimensions (L*W*H)		390*180*270 (mm)	390*540*270 (mm)
Weight		15kg	50kg

OBC/AC-DC CONVERTER

On-board Charger / AC-DC Converter — 6.6kW

Product features:

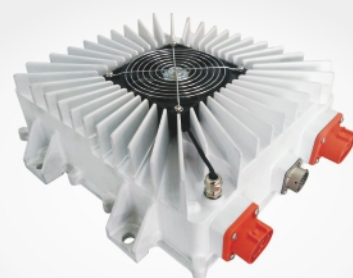
- Input voltage range: 340~420Vac 3-phase; 180~264Vac 1-phase
- High conversion efficiency: up to 95%
- Small size, and convenient for installation
- Protective functions: input overvoltage / undervoltage protection, output overcurrent / overvoltage protection, over-temperature protection, and short-circuit protection
- Digital-analogy mixed control technology, input & output separated, safe and reliable
- Encapsulating pattern: water-cooling & air-cooling

Main specifications & parameters:

Type	Items	Value	Unit
Input	Input voltage range	340~420 180~264	Vac
	Max. input current	32	A
	Input OVP	425 (± 5)	Vac
	Input UVP	175 (± 5)	Vac
Output	Output voltage	200~500 400~700	Vdc
	Max. output current	20/8	A
	Max. output power	7.2/2.4	kW
	Typical efficiency	95.5	%
Others	Operating temperature	-40~+60	°C



Water-cooling



Air-cooling

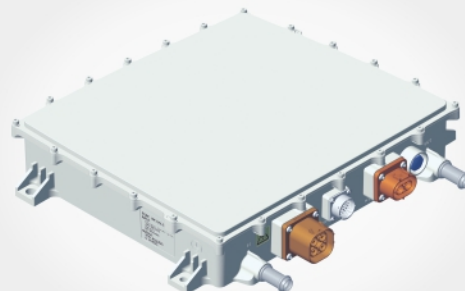
On-board Charger / AC-DC Converter — 11kW/22kW

Product features:

- Input voltage range: 340~420Vac 3-phase; 180~264Vac 1-phase
- High conversion efficiency: up to 95%
- Small size, and convenient for installation
- Protective functions: input overvoltage / undervoltage protection, output overcurrent / overvoltage protection, over-temperature protection, and short-circuit protection
- Digital-analogy mixed control technology, input & output separated, safe and reliable
- Encapsulating pattern: water-cooling & air-cooling

Main specifications & parameters:

Type	Items	Value	Unit
Input	Input voltage range	340~420 180~264	Vac
	Max. input current	32	A
	Input OVP	425 (± 5)	Vac
	Input UVP	175 (± 5)	Vac
Output	Output voltage range	200~450	Vdc
	Max. output current	30	A
	Max. output power	12	kW
	Typical efficiency	95.5	%
Others	Operating temperature	-40~+60	°C



ABOUT ECU

ECU Electronics Industrial Co.,Ltd. (ECU) has been committed to providing integrated professional power solutions since its establishment in 1992, focusing on research, manufacturing and marketing of power supply products. ECU has an outstanding partnership with many world's top 500 companies by virtue of its core power technology and creative professional team and enjoys a high profile and reputation in the industry. The products manufactured are exported worldwide, eg. USA, Europe, Australia, etc.

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