

2-in-1 On-board Charger and DC-DC Converter

Power	6.6KW OBC + 2.5KW DC/DC
OBC Input Voltage	85-265Vac
OBC Output Voltage	200-480Vdc
OBC Output Current	0-22.7A
DC/DC Output Voltage	13.5Vdc
DC/DC Output Current	0-220A
Operating Temperature	- 40 °C ~ +85 °C
Cooling	Liquid
Dimension	428 x 326.3 x 76.5 mm
Weight	8.4KG
Ingress Protection	IP67
Interface	CAN BUS



Custom Solutions

In addition to its rich offering of standard power conversion products in IT, industrial, railway, vehicle, robotics, automation, LED lighting, etc., NetPower is highly capable of providing custom power solutions. Its mature and technology advanced product platforms coupled with its strong engineering capabilities result in fast development cycle and ensures high reliability of the custom products.

Quality Management and Customer Satisfaction

NetPower has put great emphasis on its quality management from engineering, manufacturing to customer service. As a result, NetPower has been successfully supporting many high reliability applications in various market sectors with hundreds of satisfied customers and millions of reliable products running in the field worldwide. With its firm believe of long-term partnership, NetPower offers high quality products backed by top-latch services at competitive cost.

ELECTRIC VEHICLE ON-BOARD DC-DC AND CHARGERS

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EV On-board DC-DC Converters

NetPower EV on-board DC-DC converters are available with multiple input voltage ranges covering from 60V up to 800V. These converters are made with mature building blocks enabling short development cycle to satisfy customers' requirements. Planar magnetics, SMT process and soft-switching techniques ensure high efficiency, high power density and high reliability. These digital converters work intelligently with BMS. Standard products are available from 1KW to 4.2KW. Higher power solutions can be achieved through parallel of multiple converters or custom designs.

- Designed to meet ISO26262 (ASIL B)
- Parallel operation for higher power
- UDS bootloader, diagnostic optional
- J1939 communication, bootloader, diagnostic optional
- Customized CAN communication optional
- Programmable CV/CC output
- IP67 Enclosure, liquid or convection cooled



65-120V Input DC-DC Converters

Series	Input Voltage	Power Range	Efficiency	Output Voltage	Communication	Cooling Method
CD14K2-57LL	65-120V	4.2KW	≥ 93%	55.0V	CAN	Liquid
CD14K2-28LL	65-120V	4.2KW	≥ 93%	28.0V	CAN	Liquid
CD13K0-14LL	65-120V	3.0KW	≥ 93%	14.0V	CAN	Liquid



250-450V Input DC-DC Converters

Series	Input Voltage	Power Range	Efficiency	Output Voltage	Communication	Cooling Method
CD12K2-14AF	250-450V	2.2KW	≥ 93%	14.0V	CAN	Convection
CD12K2-28AF	250-450V	2.2KW	≥ 93%	28.0V	CAN	Convection
CD13K3-14AL	270-410V	3.3KW	≥ 94%	14.2V	CAN	Liquid
CD13K3-28AL	270-410V	3.3KW	≥ 94%	28.0V	CAN	Liquid

400-800V Input DC-DC Converters



Series	Input Voltage	Power Range	Efficiency	Output Voltage	Communication	Cooling Method
CD12K0-14BL	400-800V	2.0KW	≥ 95%	13.8V	CAN	Liquid
CD13K0-14BL	400-800V	3.0KW	≥ 93%	14.0V	CAN	Liquid
CD13K0-28BL	400-800V	3.0KW	≥ 95%	28.0V	CAN	Liquid

EV On-board Chargers

NetPower EV On-board chargers are available with universal input voltage and either single 6.6KW OBC or 2-in-1 integrated 6.6KW OBC and 2.5KW DC/DC.

To comply with the high quality standard of automotive components, NetPower has implemented total quality control to enable traceability, keep its design and manufacturing processes in check, and ensure the high reliability of its products.

Thanks to the market-leading performance and superior quality, these converters are widely used in electric vehicles as well as other battery-powered equipment.

- Universal AC input voltage
- CAN communication
- Low profile
- Active power factor correction, PF>0.95
- Compliance with SAE J1772 / IEC 61851
- IP67 Enclosure
- Intelligent charging
- Full set of protection features
- Liquid or convection cooled

6.6KW EV On-board Charger

Power	6.6KW
Input Voltage	85-265Vac
Output Voltage	200-420Vdc
Output Current	0-20A
Operating Temperature	- 40℃ ~ +60℃
Cooling	Convection
Dimension	345.8 x 255.7 x 128.2 mm
Weight	6KG
Ingress Protection	IP67
Interface	CAN BUS

