



EV ON-BOARD CHARGERS & DC-DC CONVERTERS



NetPower EV on-board DC-DC converters take various input voltages ranging from 65V up to 850V and generate various output voltages ranging from 14V to 55V. Standard products produce 800W to 6kW output power. These EV converters adopt modular design concept enabling short development cycles to meet customers' specific needs.

NetPower EV on-board chargers (OBC's) are available with 400V/6.6kW, 400V/11kW, and 800V/6.6kW outputs. The combo unit (400V/6.6kW OBC + 14V/2.5kW DC-DC) receives most broad welcome for its savings of cost and space as well as its parallel operation capability. In addition, the 400V/6.6kW OBC has the optional V2L feature. All OBC's can be ordered to comply with either SAE J1772 or IEC 61851.



Highlights

- ⦿ Programmable battery charging current
- ⦿ Full set of protections
- ⦿ CAN2.0B interface
- ⦿ Bootloader via CAN bus
- ⦿ Parallel operation for higher power
- ⦿ IP67 enclosure

Customization

- ⦿ Customized CAN communication
- ⦿ J1939 communication, bootloader, diagnostic
- ⦿ UDS bootloader, diagnostic



65-120V Input DC-DC Converters

Part No.	Input Voltage	Output Voltage	Output Power	Efficiency	Cooling Method
CD11K5-xxL	65-120V	14, 28V	1.5kW	92%	Liquid / Conduction
CD13K0-xxL	65-120V	14, 28V	3.0kW	92%	Liquid
CD14K2-xxL	65-120V	28, 55V	4.2kW	93%	Liquid



250-430V Input DC-DC Converters

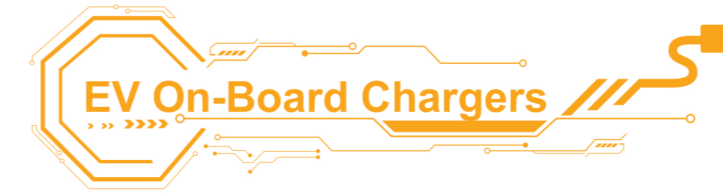
Part No.	Input Voltage	Output Voltage	Output Power	Efficiency	Cooling Method
DE13K0-xxA	250-430V	14, 28V	3.0kW	95%	Liquid / Conduction
DG14K0-xxA	250-430V	14, 28V	4.0kW	94%	Liquid
DG16K0-xxA	250-430V	14, 28V	6.0kW	94%	Liquid

Note: xx stands for output voltage.



400-850V Input DC-DC Converters

Part No.	Input Voltage	Output Voltage	Output Power	Efficiency	Cooling Method
CD1800-xxB	400-850V	14, 28, 48V	0.8kW	94%	Conduction
DE12K5-xxB	400-850V	14V	2.5kW	94%	Liquid / Conduction
DE13K0-xxB	400-850V	28V	3.0kW	95%	Liquid / Conduction
DG14K0-xxB	400-850V	14, 28V	4.0kW	93%	Liquid
DG15K0-xxB	400-850V	14V	5.0kW	93%	Liquid
DG16K0-xxB	400-850V	28V	6.0kW	94%	Liquid



Highlights

- ⦿ High power density
- ⦿ Full set of protections
- ⦿ Capable of parallel operation
- ⦿ SAE J1772 or IEC 61851 compliance
- ⦿ Intelligent charging modes
- ⦿ CAN2.0B interface
- ⦿ IP67 enclosure



Part No.	Input Voltage	Output Voltage	Output Power	Efficiency	Cooling Method
CA16K6-2AL	85-265Vac	400-850Vdc	6.6kW	94%	Liquid
CA111K-1DL	265-480Vac (3Φ)	200-480Vdc	11kW	94%	Liquid
CAD26K6A-142K5L	85-265Vac	200-480Vdc (OBC)	6.6kW (OBC)	94%	Liquid
		13.5Vdc (DC-DC)	2.5kW (DC-DC)		
CAD26K6B-142K5L	85-265Vac	400-850Vdc (OBC)	6.6kW (OBC)	94%	Liquid
		14Vdc (DC-DC)	2.5kW (DC-DC)		
CAD26K6B-283K0L	85-265Vac	400-850Vdc (OBC)	6.6kW (OBC)	94%	Liquid
		28Vdc (DC-DC)	3.0kW (DC-DC)		
CBD36K6A-142K5L	85-265Vac	200-480Vdc (OBC)	6.6kW (OBC)	94%	Liquid
		13.5Vdc (DC-DC)	2.5kW (DC-DC)		
		110Vac / 1.6kW or 220Vac / 3.3kW (Inverter)			