

DVCx3-Series

DC/DC converter for hybrid and electric vehicles



Deutronic Logistics

keeps your industrial trucks running.

The latest generation of DC/DC converters for electromobility – also in fuel cell applications – enables a high power density and current carrying capacity with a very flat design using planar components.

The DVC853 and DVC1903 have a boost performance and provide for $t \leq 4s$ a maximum output power of 2.208W or 3.840 W. Both converters are equipped with a CAN interface and allow communication according to the standard- and J1939-protocol. Other input/output voltage ranges are available on request.

Power

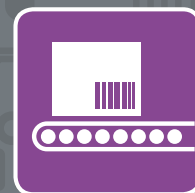


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Advantages

- ✓ Power range 150–3840W
- ✓ Conduction cooling – no extensive cooling concept needed
- ✓ Extremely compact design (planar technology), dry design (electrolyte-free)
- ✓ Customer specific Input and Output voltage range possible
- ✓ Available CAN protocols: Standard-CAN and J1939
- ✓ Protection classes IP54, IP65
- ✓ Protection against unfavorable environmental conditions (fully potted)
- ✓ Customized changes possible

Technical data

Type	Output power	Input voltage	Output voltage	Max. output current	Control inputs
DVC153-24/36-12	150W	36VDC	12,5VDC	12A	
DVC153-48-12	150W	48VDC	12,5VDC	12A	
DVC153-80-12	150W	80VDC	12,5VDC	12A	
DVC153-80-13,8	150W	80VDC	13,8VDC	11A	
DVC453-24/36-24	450W	24–36VDC	24,3VDC	18,5A	
DVC453-48/80-24	450W	48–80VDC	24,3VDC	18,5A	
DVC853-48/80-13,8	966W (2.208W t<=4s)	48–80VDC	13,8VDC	70A Boost 160A (t<=4s)	Option: CAN
DVC953-48/80-13,8-CAN	1280W	48–80VDC	13,8VDC	80A	CAN
DVC1903-24/48-24-CAN	1920W	24–48VDC	2–30VDC	80A	CAN
DVC1903-48/80-24	1680W (3.840W t<=4s)	48–80VDC	24,3VDC	70A Boost 160A (t<=4s)	Option: CAN
DVC1903-48/80-24-CAN	1920W	48–80VDC	2–30VDC	80A	CAN
DVC2503-96-24-CAN	2500W	96VDC	24,3VDC	100A	CAN

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