

DCI converters

Isolated Switchmode DC-DC converters, 100 – 360 watt

INVATEC multi-voltage converters, solve demanding tasks. With an input voltage range spanning from 9 to 120 volts, for a fixed output voltage of 12 or 24 volts and 3 effect sizes, one can always find a "special converter" from standard inventory that can solve most of the supply demands.

DCI multipoint series are constructed using the latest technologies and components within the switch mode technology. This results in a product that is virtually lossless at power conversion, thus providing a minimal heat generation. Less than 10 % of the converted power turns into heat.

Type numbers are systematically built up: first set maximum effect then the input voltage and finally the output voltage.

200 and 360 watt models have, unlike the 100 watt version, built-in thermostatically controlled fan operation.

FEATURES

- Easy mounting
- Compact housing
- Fold-back current limiting and protection against short circuit
- Overheating, overvoltage and reverse polarity connection.



Common features

Paralleling	Max. 2 converters
Humidity	Max. 95 % non condensing
Protection	Overload
	Up to short-circuit
	Overheating
	Output voltage reduction
Overvoltage	Transient protection by Varistor
	Reverse polarity
Fuse	
Casework	Anodized aluminium
Connections	6.3 mm Faston
Warranty	2 years
Norms: EN 50081-1 (emission) , EN 50082-1 (immunity), 95/54/EC (automotive directive)	

100 watt	In/Out Converter	Input voltage	Output voltage	Output current	Galvanic Isolation	Efficiency at full load	Isolation voltage	Standby consump.	Cooling and oper. temp.	Weight	Dimension in mm						
DCI100A12	12/12	9 – 18	12.5	8	Yes	>85%	400 V	<20 mA	Convection –20°/+45°C	500 g	150 × 88 × 50						
DCI100B12	24/12	20 – 35															
DCI100C12	48/12	30 – 60															
DCI100D12	96/12	60 – 120															
DCI100A24	12/24	9 – 18	24	4													
DCI100B24	24/24	20 – 35															
DCI100C24	48/24	30 – 60															
DCI100D24	96/24	60 – 120															

200 watt	In/Out Converter	Input voltage	Output voltage	Output current	Galvanic Isolation	Efficiency at full load	Isolation voltage	Standby consump.	Cooling and oper. temp.		Dimension in mm						
DCI200A12	12/12	9 – 18	12.5	16	Yes	>85%	400 V	<30 mA	Fan –20°/+45°C	600 g	176 × 88 × 50						
DCI200B12	24/12	20 – 35															
DCI200C12	48/12	30 – 60															
DCI200D12	96/12	60 – 120															
DCI200A24	12/24	9 – 18	24	8													
DCI200B24	24/24	20 – 35															
DCI200C24	48/24	30 – 60															
DCI200D24	96/24	60 – 120															

360 watt	In/Out Converter	Input voltage	Output voltage	Output current	Galvanic Isolation	Efficiency at full load	Isolation voltage	Standby consump.	Cooling and oper. temp.		Dimension in mm						
DCI360A12	12/12	9 – 18	12.5	30	Yes	>85%	400 V	<50 mA	Fan –20°/+45°C	1400 g	190 × 132 × 82						
DCI360B12	24/12	20 – 35															
DCI360C12	48/12	30 – 60															
DCI360D12	96/12	60 – 120															
DCI360A24	12/24	9 – 18	24	15													
DCI360B24	24/24	20 – 35															
DCI360C24	48/24	30 – 60															
DCI360D24	96/24	60 – 120															