

DIGITAL CRYOCOOLER ELECTRONICS DCE100

- **Very compact & lightweight**
- **Enhanced telecommand and -measuring capability**
- **Internal EMI filter**
- **High efficiency**

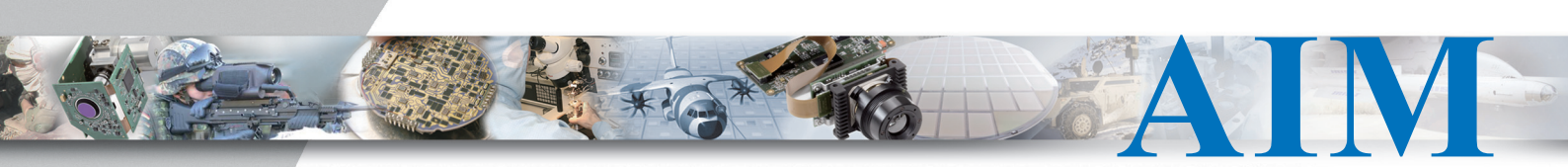
AIM's latest family of digital cooler electronics is designed to meet the demand for lightweight high performance IR-technology.

The Digital Cryocooler Electronics (DCE100) with enhanced telecommand and telemeasuring for 25 till 100 W_{DC} driving capability. Integrated input and output filter reduces setup time and external EMI tuning. With separate supply and signal connector, the DCE100 can operate like analog driver electronics without digital interfaces.

The software based control loop of input power and detector temperature can be adapted for a wide range of heat loads and motor characteristics.

For a fast setup and easy handling the DCE100 can be controlled via an external PC through an RS422 interface. A GUI based on LabView™ for easy operation and full access to all operating data and control characteristics is available.



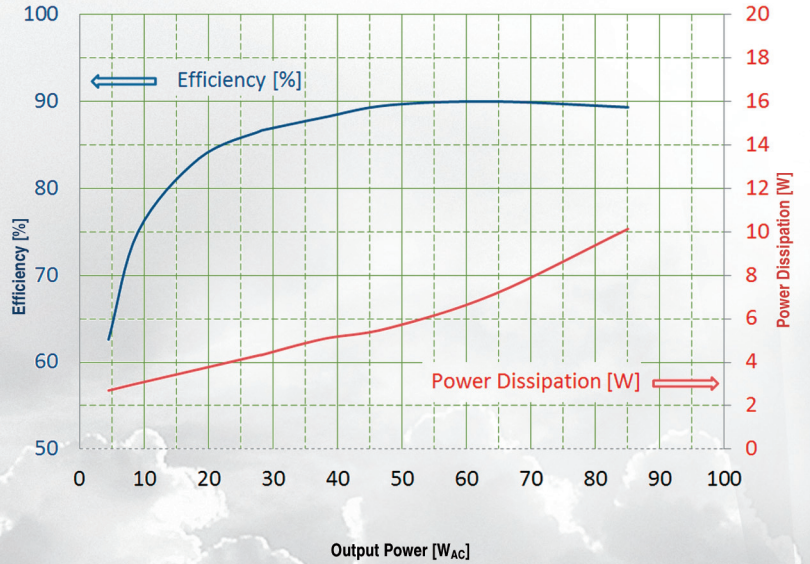


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Applications

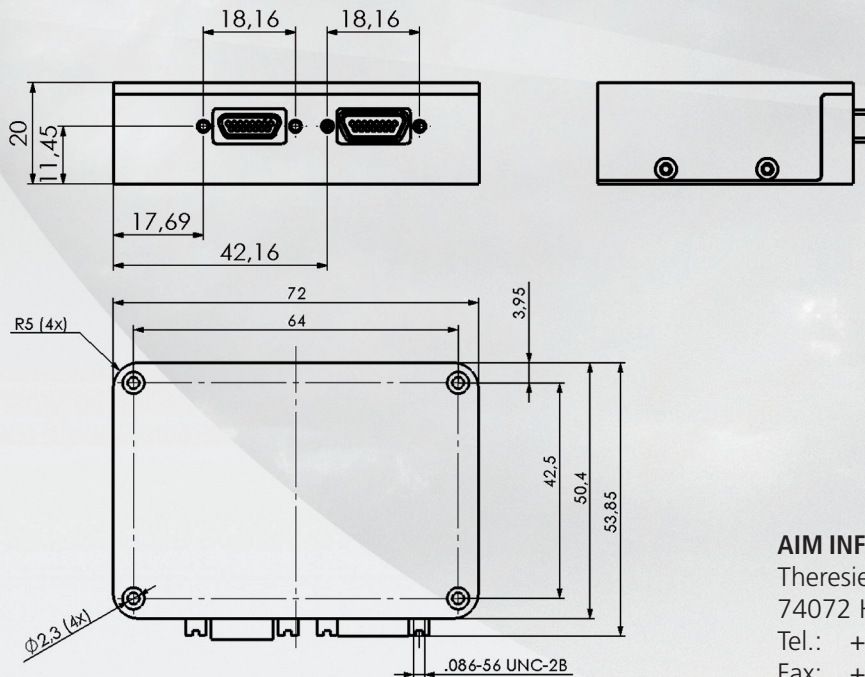
- High power application up to 100 W_{DC}
- Enhanced telecommand and -measuring for high end application like 3rd Gen systems
- HOT (High Operating Temperature) detectors

Typical Efficiency Data
DCE100



	DCE100
Electronics height [mm]	< 20
Electronics dimension [mm]	72 x 54
Electronics weight [g]	< 115
Supply voltage [V]	18 - 32 V _{DC}
Nominal input power range* [W]	25 - 100 W _{DC}
Detector temperature stability	±20mK
EMI requirements	MIL-STD-461F
Digital interface	RS422
Ambient temperature range [°C]	-40 to +71

* Max. input power depends on the supply voltage



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