

## Qone HEC-4 at a glance

Qone HEC-4DB	
Housing	standard euro-rack size 19"
Input voltage ranges	14.4-36 / 66-160
Output voltage	+3.3, +5, +12, -12
Max. power	up to 100 W
Ambient temperature	-40 to +85°C
Connection	pin connector M24/8
Slot variants	Right- and left-hand system slot
Dimensions (LxWxH) in mm	166.5 x 40.3 (8HP) x 105.3

Other types on request.

## The Qone HEC-4 series has everything you wish:

- High power density
- Overtemperature and overvoltage/undervoltage shutdown
- Open-circuit stable and short-circuit proof
- Remote on/off
- Coated assembly
- Glued parts for better vibration resistance
- Fixed switching frequency
- Yellow LEDs to indicate operating mode
- Railway compatibility according to DIN EN 50155 and EN 50121-3-2 (EMC)
- Inrush current limiting
- Reverse voltage protection
- Hold-up time 10 ms
- Supply Fail
- Derating Signal
- Sense (at 3.3 and 5 V)
- Enable Signal

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CompactPCI is a registered trademark of PCI Industrial Computer Manufacturers Group.

Publication of the ICE® 3-photograph by courtesy of Arge Siemens/Adtranz ICE® 3.

**Have a look at our web site. Find out more.**



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QUALITY SYSTEM



certified by DQS according to  
DIN EN ISO 9001 Reg.-No. 510-02



**The way is clear! –  
DC-DC converters for  
CompactPCI®**

Partner for high quality electronics

**Autronic**  
Steuer- und Regeltechnik / Sachsenheim

## New DC-DC converter generation for CompactPCI®

The growing use of industrial computers in the transportation industry has cleared the way for Compact PCI® systems. This development requires a new generation of power supplies complying with the high quality standards of the railway industry. At the same time the rising demand for steadily increased power density and interest in cost-effectiveness must be met.

AUTRONIC has accepted these challenges and offers a railway compatible DC-DC converter series called Qone HEC-4 for CompactPCI® suitable for mobile application purposes with high power supply standards.

**For high-standard mobile application purposes.**

## Compact power package

Despite their width of merely 8 HP, the 3 U devices reach a maximum output power of 100 Watt. These quad output converters have output voltages of +3.3; +5; +12; and -12 V. Standard types are available with input voltage ranges according to EN 50155 between 14.4 and 36 V and between 66 and 160 V. Connection by pin connector M24/8.

**Quad converters of 100 Watt and 8 HP.**



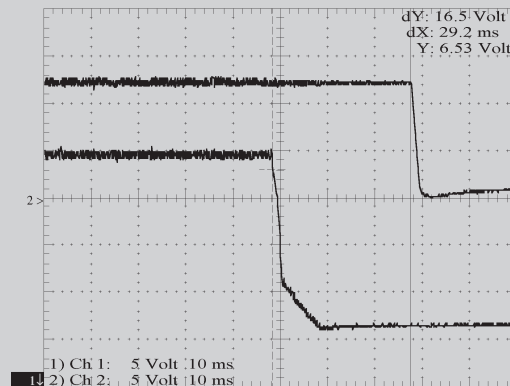
## Suitable for use in rugged environmental conditions

The assemblies were coated and the components are glued for better vibration resistance. They can even be used in rough ambient conditions with no problems. The converters are equipped with a heat sink so that they can be operated without forced cooling. And with a temperature range between -40 °C and +85°C they cope with extreme temperatures.

## Strong signals

For example the 'Derate Signal': it gives signal in case of a non-admissible temperature rise via the DEG output before switching-off is triggered. This makes it possible to take suitable measures in due time. In addition, the HEC-4-converters are provided with Supply Fail Signal, Enable Signal and Sense.

## Hold-up time



Example: 12 Vout at 24 Vin and 100 Watt

## Don't worry, your data is safe!

The Qone HEC-4-converters excel by a hold-up time of 10 ms guaranteed even with minimum input voltage and high output powers. So in cases of power failure there is sufficient time to save your data.

**My Address:**

Name, first name

Company

Department

Street

POC/Town

Tel/Fax

e-mail address

**For fax replies:**

**+49 (0) 7147/24-252**

**Are you interested in more information?**

**Fax-back your request below:**

- Please let me have more information material.
- Please call me to fix a meeting.
- My questions refer to: