

HFBC80-W/KS - DC/DC CONVERTER WITH LATEST TECHNOLOGY IN COMPACT DESIGN

The brand new HFBC80-W/Ks in the familiar compact housing for wall mounting offers an ultra-wide input voltage range from 14.4 V to 154 V with 80 Watt power now. This is a 33 % power increase compared to the previous version. A single converter thus covers all internal on-board voltages for railway (24 V, 36 V, 72 V and 110 V), including the tolerance range of +/- 40 % required by EN 50155, in a single device. This ultra-wide solution is therefore ideal for companies operating worldwide to perform the qualification of own applications cost-efficiently with one converter.

The EN 50155 regarding temperature, shock, vibration, as well as the rail-road specific criteria for EMC according to EN50121-3-2, as well as Surge, Burst and ESD are completely complied without any additional components. In addition, the converter has an integrated hold up time of 10 ms (class S2), which makes the compact converter (113 x 46 x 35 mm) unique, designed according to temperature class OT4, ST1+2 (-40...85 °C). Very high efficiency (up to 92%) is achieved by combining booster and active clamp at the optimized operating point.

An inrush current limitation, overvoltage and overtemperature protection and an active reverse polarity protection are integrated as standard. In addition, the converter is open-circuit protected and permanently short-circuit proof. The modules can be connected in parallel and the output voltage can be trimmed. Currently the DC/DC converter is available with an output voltage of 12 V, further outputs are available on request.

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