

HPBC20 – BRAND NEW 20W PCB-MOUNTING CONVERTER WITH ULTRA-WIDE INPUT

The brand new HPBC20 for PCB mounting has an ultra-wide input voltage range between 14,4 and 154VDC with a output power of 20 watt. So one single device suits for all international on-board power supply voltages of rail vehicles (24V, 36V, 72V and 110V) including the +/- 40% tolerance required according to EN 50155. Consequently, this ultra-wide solution is very interesting for companies with Europe-wide activities, since one converter is sufficient for the qualification of modules.

It complies with EN 50155 regarding temperature, shock, vibration, as well as the railway specific criteria for EMC, surge, burst and ESD without additional components. Moreover, the Railway converter has an integrated hold-up time of 10 ms (Class S2) that makes this converter unique in this power range. A high degree of efficiency is achieved by the combination of booster and single forward converter at the optimized operating point (approx. 88%).

Features are inrush current limitation, over temperature protection, over voltage protection as well as a short-circuit protection. Beside the version with output 5V or 12V, also a version with 24V single output voltage is available. For other outputs please contact us.

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