Figure 2. Inrush current behaviour, left conventional, right Maxpower
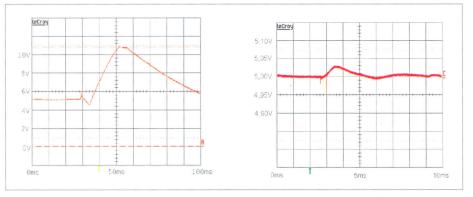

Figure 3. Output voltages during the connection process, left without protective function, right with protective function (Maxpower)

way a homogenous stress factor is achieved. To parallel-switch power supplies in redundant systems, Schroff engineers have integrated decoupling components into the output voltage path of the power supplies. These ensure that in case of a fault no reverse current can flow back into the power supply, and thus avoid a system failure. For lower output currents the disconnection components are Schottky diodes (typical voltage loss of 0.3V), for higher currents however, active MOSFETs (typical voltage loss 0.1V) are used to achieve a continuous degree of effectiveness. In both cases, in a fault situation the system voltage is guaranteed to be maintained.

Dangerous overvoltages can also occur during disconnection, just as during connection. Schroff has proved on a 19" system that differences in the opening of the contacts are possible despite tightest mechanical tolerances. This means that the sense information may be lost just before disconnection. A conventional power supply would react within microseconds with an extremely dangerous overvoltage. Help is also provided here through a second active protection within the power supply. This protection is integrated as standard into the Ecopower and Maxpower range. Overvoltages during disconnection of the power supply are avoided. ■

Product News

■ ADLINK: easy data capturing with no programming required
ADLINK announced the release of AD-Logger, a ready-to-run data capture application which offers a simple configuration-based means to log data. AD-Logger can be used with any one of hundreds of ADLINK data acquisition or digitizer cards to effortlessly log data from a variety of sensors, including thermocouples, RTDs, thermistors, strain gages, accelerometers, etc. AD-Logger is specifically designed to provide extensive data logging features without the need for complex programming.
News ID 1546

■ Lanner: 32-channel hybrid digital video recorder with H.264/AVC encoding
Lanner Electronics has launched a new 32-channel hybrid digital video recorder with onboard H.264/AVC encoding. The Lanner VN-3432 takes 32 channels of analog video and converts them to highly compressed H.264 format for storage and delivery over a network. This model has 32 front-facing BNC inputs for analog video input, 32 G.711 audio inputs, two gigabit Ethernet ports, an RS-485 for PTZ control and an 8 DI/DO terminal block for alarm inputs
News ID 1962

■ Brainboxes: opto isolated RS422/485 PCI Express products
Brainboxes releases its first Opto Isolated PCI Express RS422/485 products. The RS422/485 boards have 1 MegaBoard data transfer speeds and have 128 byte FIFOs with on board hardware and software flow control. RS422 and RS485 are bus systems and up to 32 standard load or 128 low load devices per port can be connected. RS422 is supported with dedicated pairs for TxD, RxD, RTS and CTS signals. RS485 systems are supported in both Full Duplex mode using 2 pairs of wires and in Half Duplex mode using 1 pair of wires.
News ID 1912

■ AAEON: Core 2 Duo based medical stations
AAEON announces the debut of two new medical stations'ONYX-175X and ONYX-195X. The ONYX-175X/195X Diagnostic Medical Stations are based on the Intel Core 2 Duo processor which delivers a performance improvement of more than 100 percent, compared to systems running on traditional single-core processors. With two cores, or computing engines, the units can simultaneously execute two computing tasks. It accommodates one 2.5" SATA
News ID 1911

■ NI: five-Slot PXI Express chassis with integrated remote controller
National Instruments introduces low-cost PXI Express chassis and controller options for automated test and measurement applications, including the NI PXIe-8102/01 embedded controllers and the NI PXIe-1073 chassis. The NI PXIe-1073 chassis features five PXI Express hybrid slots that accept both PXI and PXI Express modules, such as the new National Instruments X Series PXI Express data acquisition modules, to maximize system flexibility.
News ID 406

■ Schroff: new edition of main catalogue
In its latest catalogue Schroff is presenting its palette of products available worldwide on over 1100 pages. The catalogue contains the entire product spectrum, from cabinets, cases and subracks through to backplanes, PSUs and climate technology. Included for the first time are all the data and network technology products such as server cabinets with and without water cooling, cold and hot aisle containment systems, power distribution units and networking cabinets.
News ID 1976