

Bi-Directional multi-purpose converter

Built-in zone selector

Self-contained fault behavior for high-availability redundant systems



POWER HEART

Power Module

The Power Module is a 2U height 3-phase power converter – working as rectifier or inverter according to current system demand. The module may be stacked and up to 14 units may be configured in a single rack. The Power Module is used as a 10 kW nominal power converter.

Technology

Switch mode power converter module

- Bi-directional (3-phase AC/DC, DC/AC)
- IGBT switches, 24 kHz switching frequency
- High-performance three-level switch mode topology
 - Active neutral point-clamped multilevel converter
 - Transformer-less
- Crest factor: 2.8
- Developed for robustness: 15 kW continuous power, built-in hardware protection on IGBT control side and on IGBT current

Technical Data

- AC side: 3x230 VAC \pm 20%, 40-70 Hz unity power factor
- DC side: \pm 325 VDC to \pm 480 VDC
- Load sharing, paralleling of modules
- Externally synchronised (to mains frequency and to the switch mode frequency)

Efficiency - double conversion UPS > 94% at full load.

Module size

W: 19", H: 2U, D: 800 mm

Approvals

CE (according to EN/IEC 62040).