

NEW GENERATION TRANSTECHNIK MODULAR POWER SUPPLY TT-MoPS FOR ACCELERATORS

M. Hohmann, Transtechnik, Holzkirchen

Abstract

TT-MoPS Next Generation Modular Power Supply
Transtechnik designed a new generation of a high flexible high current modular Power Supply. The target was to combine the experience of the CERN-LHC Project with the requirements of the market and some new ideas. High reliability – best performance; Strongly modular – to meet a wide range of specifications; External calibration – fully automatic calibration without moving the rack installation; Easy to repair@module level – plug and play solution for high availability; Easy to configure – Fast notation, fast implementation, easy maintainability; High accuracy – about 100 ppm current regulation. For our customer, STFC Rutherford Appleton Laboratories, Transtechnik produces a modular system for output voltage up to 125 VDC (CERN LHC-Product: 18 V/±40 V) and a current loading between 100 A and 500 A (CERN LHC-Product: 13,5 kA/21 kA/600 A). The system consists of a new generation of standard Power Supply modules which allow combination of the shelf Power Supply to a customised Power Supply in a flexible and comfortable way (optional Modifikation: n+1 redundancy; un/-load module for high current inductors and high voltage modules-CEBU).

**CONTRIBUTION NOT
RECEIVED**