

SPN3x400/24/48/72/110

Stationary battery charger for railway passenger car batteries

Rated power 6 kW .. 18 kW

> Customer:

Serbian railways

> Product description:

SPN3x400 unit is supplied from the 3-phase 0.4 kV mains. It is designed to maintain and refresh the most common PbS, NiCd, lithium-ion and other railway batteries. The battery voltages could be 24V, 48V, 72V and 110 V. The battery capacities supported are up to 2200 Ah. The operating modes includes selection between 24 charging algorithms, refreshing modes and discharge modes.

DSP-based algorithms include diagnostic functions that determine the health status of the battery and suggest the remedies.

The outcome is available in the form of log files featuring the voltage, current and charge changes over time as well as the relater U-I, Q-U and Q-I curves.



> DDC involvement:

Concept, hardware design, safety and EMC norms, DSPcontrol software design and communication software design, preseries production and customer support.