Auxiliary power supply for rail vehicles
- Integrated battery charger
- Lightweight and compact design using medium-frequency electrical isolation
- Easy maintenance due to modular design
- Low noise using a continuously variable speed-controlled fan
- Bus connection via IP, CAN Open or MVB
- Parallel connection of DC outputs is possible by means of an optional decoupling diode

Reference: EMU Toluca, Mexico
TECHNICAL DATA
TYPE: U1800DC / 480AC3-110DC / P135-20 / F60

ELECTRICS

DC Input
Rated voltage 1800 V DC, traction DC link
Operation range 1098 ... 2100 V DC

AC Output
Rated voltage 3 x 480 V AC ± 5%
Frequency 60 Hz ± 1% with U/f start
Rated power 135 kVA, cos φ = 0.8
THD < 5%

DC Output
Rated voltage 110 V DC ± 1%
Max. current 166 A
Charging current adjustable via software
Rated power 20 kW

Overall efficiency > 92%

MECHANICS

Dimensions 2000 x 750 x 550 mm
Weight 520 kg
Mounting position Underfloor
Cooling Forced cooling
Protection IP55
Temperature range -25 ... +35°C
Maximum/average operating altitude 3100/2700 m

BLOCK DIAGRAM