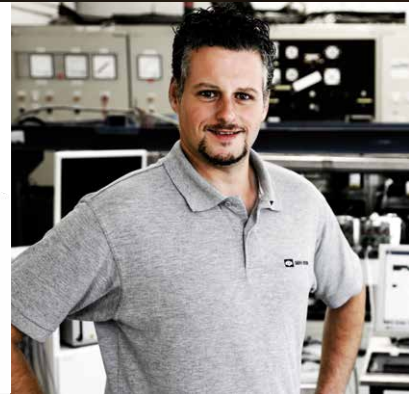




# Auxiliary power supply 135 kVA / 20 kW



- 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**



**POWERTECH**

# 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 $\pm$ 5%
Frequency	60 Hz $\pm$ 1% with U/f start
Rated power	135 kVA, $\cos \varphi = 0.8$
THD	< 5%

### DC Output

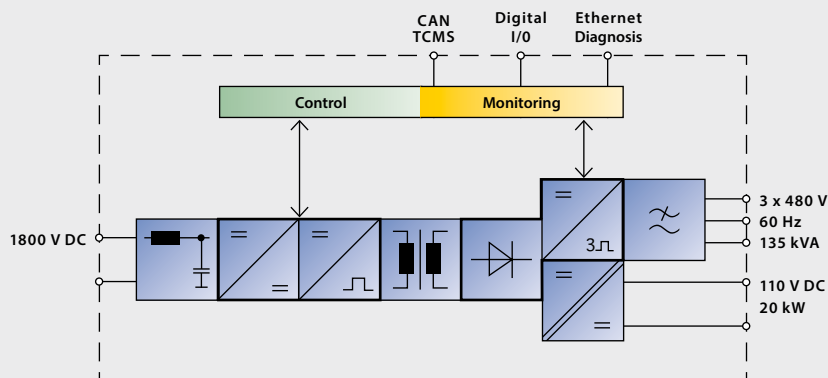
Rated voltage	110 V DC $\pm$ 1%
Max. current	166 A
Charging current	adjustable via software
Rated power	20 kW

Overall efficiency	> 92%
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## MECHANICS

Dimensions (length x width x height)	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



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