

Auxiliary power supply for train modernization



POWERTECH SOLUTION - REFERENCE MBTA GREENLINE 7, BOSTON

- Service Proven Converter for integrating in an existing mounting space
- Smart integration of separate battery charger and fuse box in new converter
- Fulfills US Rail Standards
- Wide temperature range: -20 °F to 150 °F / -29 °C to 65 °C
- Input filter resonant frequency of 20 Hz meets the high demanding conducted EMI requirements

PowerTech delivered this integrated power supply system as replacement for a motor alternator and external battery charger. The Top 3 Features are up-to-date diagnostic functionality, reduced weight and noise.



POWERTECH

TECHNICAL DATA

Reference MBTA Greenline 7, Boston

ELECTRICS

DC Input

Nominal input voltage	600 Vdc
Input voltage range	380 Vdc – 780 Vdc

AC Output

3-Phase output voltage	$3 \times 230 V_{\text{RMS}} \pm 5 \%$
Frequency	60 Hz $\pm 2 \%$
Output nominal power	49 kVA, $\cos \varphi = 0.85$
THD	< 10 %

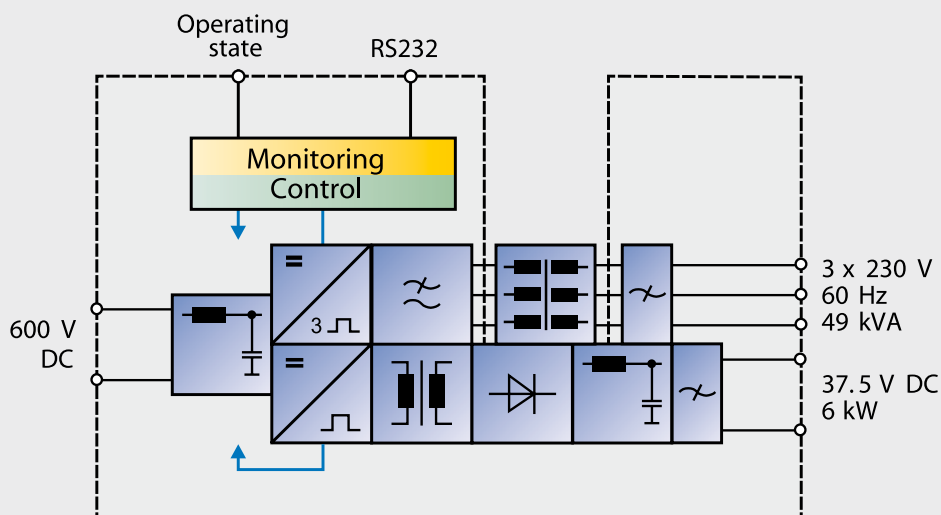
DC Output

Nominal output voltage	37.5 Vdc
Max. output current (total)	160 A at 37.5 V
Max output power (continuous)	6 kW at 37.5 V

MECHANICS

Dimensions (length x width x height)	1550 mm x 702 mm x 417 mm
Weight	392 kg
Mounting position	Underfloor
Cooling	Forced air cooling
Protection	IP65
Temperature range	-20 °F to 150 °F -29 °C to 65 °C

BLOCK DIAGRAM



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