



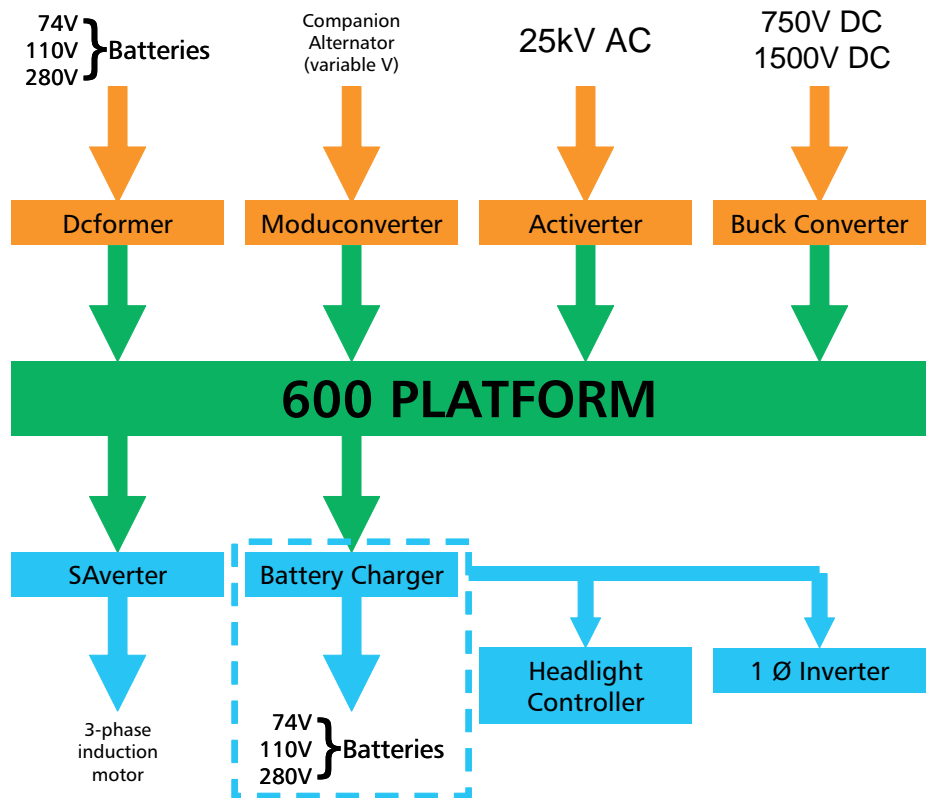
SCHAFFLER
www.railwayinverter.com

600 PLATFORM

SCHAFFLER are proud to introduce the 600 PLATFORM. The 600 PLATFORM power electronic devices either supply or make use of power at 600 volts DC.

Why 600V DC?

The natural supply voltage for variable frequency three phase inverters is 600V DC. Inverters supplying 415V AC are preceded by a full wave rectifier that produces 600V DC internally. SCHAFFLER have standardised on that principle for all rail applications - "Whatever the supply voltage, convert it to 600V DC."



Supply voltages converted to 600V DC	
74V DC	Common in Australia and some South East Asian countries.
110V DC	Common in England, Europe and India on locomotives and passenger cars.
200V-600V DC	Variable voltage derived from a variable frequency alternator OR from batteries where voltage varies from discharge to full charge.
750V DC	Used on light rail transportation.
1500V DC	An older supply system used in Australian states NSW and VIC plus many parts of the world where it is not viable to change because of the permanent structure.
25kV @ 50Hz AC	Stepped down to 400V AC, main line tracks in many parts of the world.

Schaffler & Associates Pty Ltd
Unit 4, 4 Prosperity Parade
Warriewood NSW 2104
p | 02 9997 1010
f | 02 9997 8996



SCHAFFLER
www.railwayinverter.com

Cold Plate Style

The converters and inverters are built in "cold plate" style. This means that the control and power section is separate from the heatsink. The heatsink is fitted outside the enclosure and the control and power section is fitted inside the enclosure as components. In this way, the electronic components are protected by the enclosure - in most cases fully sealed - whilst still dissipating heat via the external heatsink. Electromagnetic Interference is contained and may then be easily dismantled from the enclosure and heatsink assembly.

Dcformer

Input: 74V or 110V DC

Output: 600V DC



Buck Converter

Input: 750V DC or 1500V DC

Output: 600V DC

3-Phase SAverters

Input: 600V DC

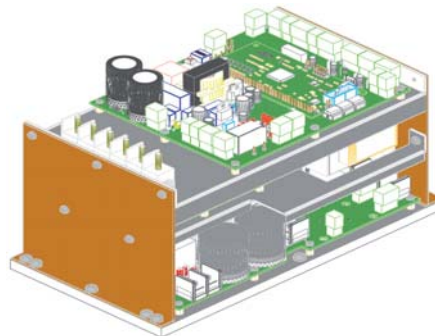
Output: 415V @ Variable Hz AC



Moduconverter

Input: Variable 200V-600V DC

Output: 600V DC



Battery Chargers

Input: 600V DC

Output: Charging voltage for 24V, 74V, 110V, 280V batteries



Activerter

Input: 400V @ 50Hz AC

Output: 600V DC

Other Products

Further 600 PLATFORM products are in development. Additionally, where three phase systems are not required, SCHAFFLER provide a range of single phase inverters and converters that are independent of the 600 PLATFORM. Inversion is achieved directly from 74V or 110V DC and transformed to 240V AC 50Hz. Other frequencies and voltages are also accommodated.

Custom Design

All our clients have unique requirements. The flexibility of the 600 PLATFORM allows us to modify SCHAFFLER products to suit individual client needs.

Schaffler & Associates Pty Ltd
Unit 4, 4 Prosperity Parade
Warriewood NSW 2104

p | 02 9997 1010
f | 02 9997 8996

