



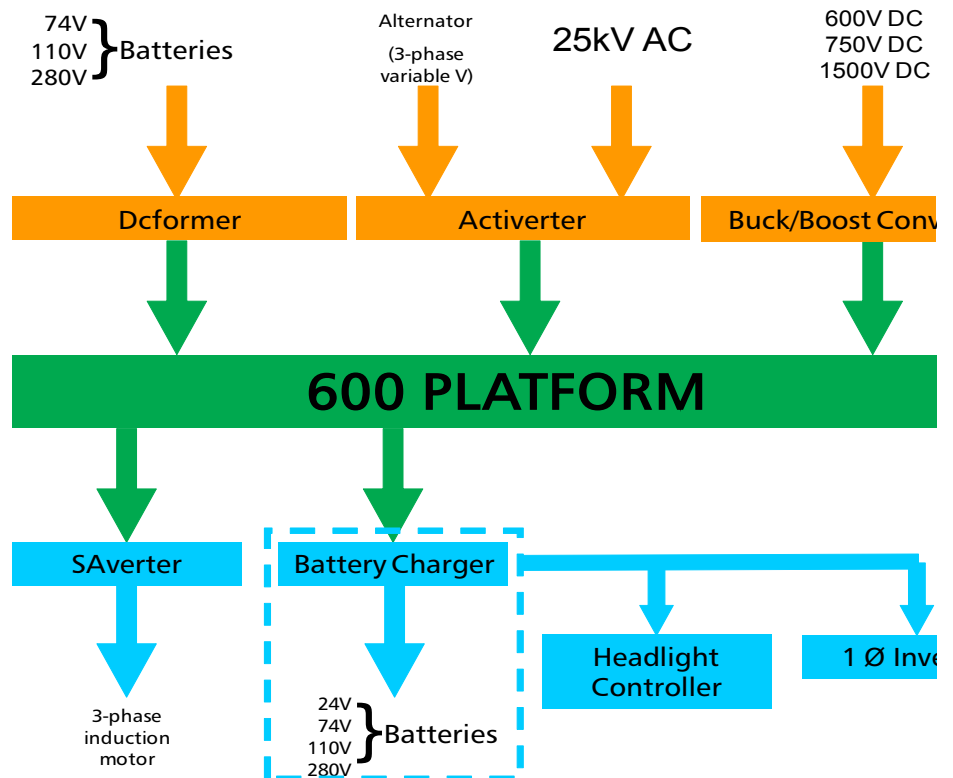
**SCHAFFLER**  
www.schaffler.com

# 600 PLATFORM

SCHAFFLER are proud to introduce the 600 PLATFORM. The 600 PLATFORM is a range of modular power electronic devices that either supply or make use of power at 600 volts DC. Using this common 600V DC, input and output devices have the flexibility to be combined and form almost any desired power system.

### 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

<b>74V DC</b>	Common battery voltage in locomotives.
<b>110V DC</b>	Common battery voltage in locomotives and passenger cars.
<b>200V-440V AC</b>	Variable voltage derived from a variable frequency alternator, typically connected to a traction motor. Frequency ranges from 25Hz to 60Hz.
<b>380/415/440V AC</b>	Mains supply or from auxiliary alternator. 50Hz or 60Hz.
<b>600V DC</b>	Used in overhead tram systems.
<b>750V DC</b>	Used in light rail transportation.
<b>1500V DC</b>	An older British 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.
<b>25kV @ 50Hz AC</b>	Stepped down to 400V AC, main line tracks in many parts of the world.

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### 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 also contained and reliability of the equipment is enhanced.

#### Dcformer

**Input:** 74V or 110V DC

**Output:** 600V DC



#### 3-Phase SAverters

**Input:** 600V DC

**Output:** 415V 60Hz VVVF



#### Battery Chargers

**Input:** 600V DC

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



#### Activerter

**Input:** Single phase or three phase

**Output:** 600V DC

#### Buck/Boost Converter

**Input:** 600V DC, 750V DC, 1500V DC

**Output:** 600V DC

### 100kW Auxiliary Power

600 PLATFORM products range in power from 2.5kW to 100kW. Higher power requirements in a single unit are rare but can also be accommodated. Contact us to discuss your requirements.

### Custom Design

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

### 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.

### Railway Standards

SCHAFFLER products are used in railway rolling stock applications. These are designed to international railway standards for Shock & Vibration and Electromagnetic Compatibility.

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