VP600*
DC/AC Inverter
EVO-Series Dual-Module
Mobile Application

Powertrain

Power | Power Distribution | Hydraulic Pumps | Control Valves | Hydraulic Motors | Torque/Speed Transmission | Motion



The VP600 EVO-Series dual-module inverter combines two powerful drive stages in one compact system, offering a highly efficient solution for traction and auxiliary functions in mobile machinery and electric vehicles. Its flexible architecture enables the control of a wide range of electric motor technologies, ensuring optimal performance and simplified system integration.

With an integrated Safe Torque Off (STO) function in accordance with DIN EN 61800-5-2, the VP600 EVO-Series delivers certified functional safety and reliable shutdown behavior for demanding mobile applications.

Typical use cases include traction drives for vehicle propulsion as well as auxiliary systems such as hydraulic pumps, cooling fans, and actuators - allowing manufacturers to realize fully electrified, energy-efficient, and low-maintenance vehicle platforms.

Design characteristics

- **Safe-Torque-Off function, according to DIN EN 61800-5-2**
- **Up to 2 x 600 Arms Peak Current for 60 sec.**
- **Integrated PLC functionality to realize application-specific functions**

Smart functions

- **E-traction**
  Reduced tire wear, improved traction
- **Smart hybrids**
  Integrated diagnostics, reduced fuel consumption
- **E-hydraulics**
  Higher efficiency, reduced maintenance costs

General technical data

Model			VP600-28WA44	VP600-28WA77
Max. DC voltage		VDC	850	850
Current	Continuosly	Arms	2x 220	2x265
	Peak 10 min.		2x 340	2x 410
	Peak 60 sec.		2x 420	2x 600
Max rotation freq.		Hz	1000	1000
Max. PWM		kHz	8	8
Dimensions		mm	560 x 420 x 131	560 x 420 x 131
Weight		kg	25	25

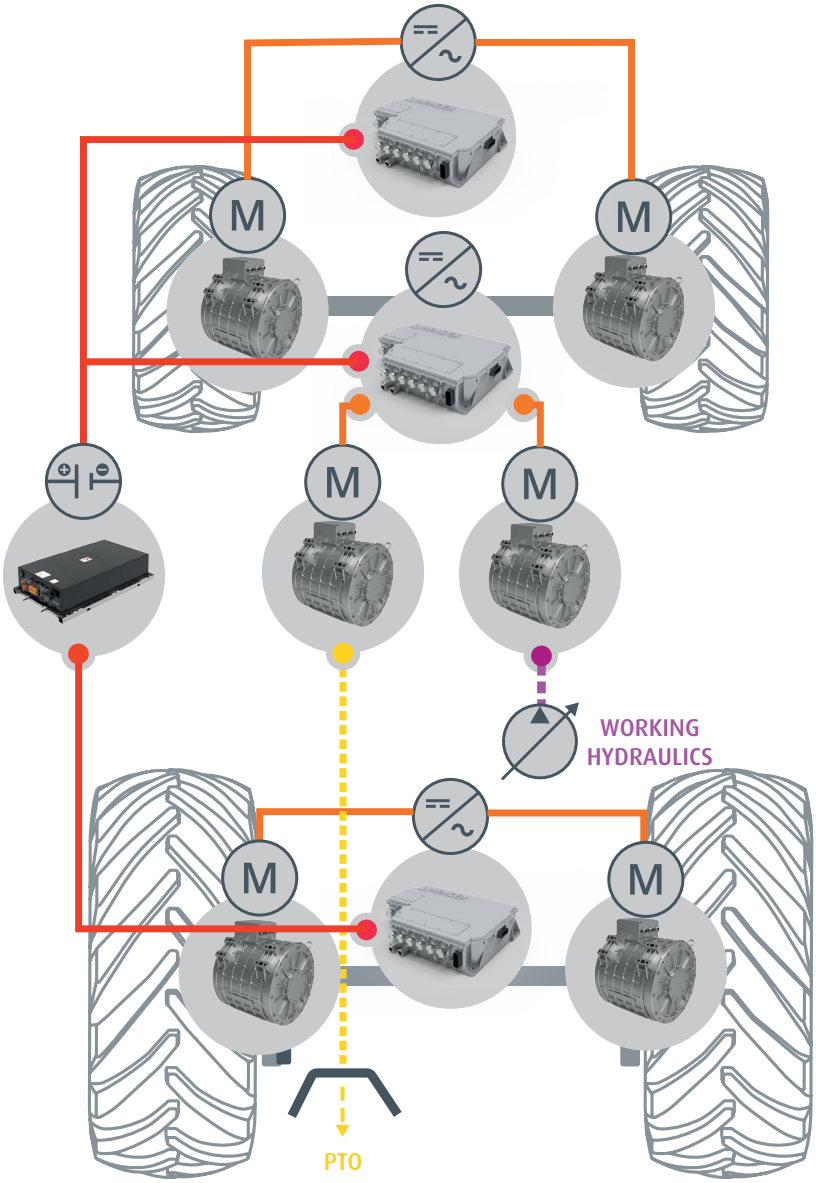
* LHY Partner Product

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Application example

Fully-electric Tractor



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