Hybrid Electric

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DC Motor Controller PowerpaK

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The PowerpaK series is a comprehensive range of vehicle controllers, combining ultra compact size with an unrivaled power to dimension ratio. With current ratings of up to 600 A these controllers occupy a footprint of only 142 x 142 mm. This makes it up to 75 % smaller than similar function units of other makes.

Features

- Ultra compact size
- Regenerative braking
- Speed compensation for steering
- Silent operation
- High 16 kHz switching frequency
- CAN communication bus
- Removable logic unit
- Calibrator interface
- FLASH memory
- Choice of display options

Inputs & Outputs

Standard configurations of digital and analog inputs and outputs (I/O) are especially suitable for twin motor applications. Functions include throttle inputs, limit switch inputs, contactor drives, hour counters, and instrumentation. This allows use as a stand-alone unit or to be integrated into a vehicle system.

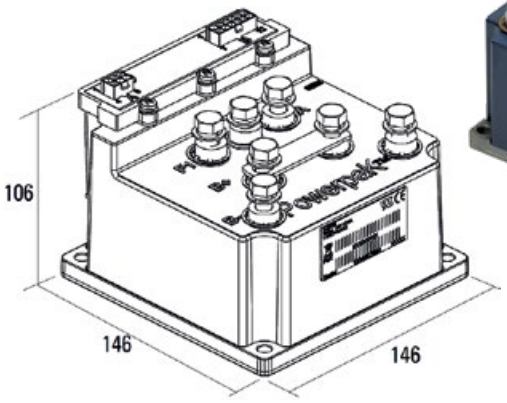
- 6 Digital Switch Inputs
- 2 Analogue Inputs
- 2 Contactor Drive Outputs

Key Parameters

	Battery Voltage (Vdc)	Max Power (kW)	Peak Current 1 Min (A)	Max Field Current (A)
Series Traction	24 – 48	4.5	300	–
		5.8	450	–
		8.5	650	–
	80	8.5	450	–
		8.5	600	–
SEM Traction	24 – 48	4.5	350	50
		6.5	500	50
	80	8.5	420	50
Series Pump	24 – 48	8.5	300	–
		5.5	450	–
		8.5	650	–
	80	8.5	450	–
		8.5	600	–

IP55 Protection Weight 1.8 kg

Mechanical Interface



Separately Excited Motor Controller (SEM)

The SEM Controller offers a contactor free solution to direction change, regenerative braking and field weakening without the need for extra sensors. Controllers can be used in single or twin and be configured as a master or slave.

Series Motor Pump Controller

Dedicated flexible solution. The Pump Motor Controller comes standard with two variable and five configurable speed inputs as well as speed compensation for use in power steering applications.

Series Motor Traction Controller

The PowerpakK series Traction Controller can be used in a single or twin motor system. In a twin motor system it can be easily configured as master or slave. A range of contactor drive options are available to match the application. These controllers are also available on a variety of standard pre-wired panels complete with contactors, etc.

For Additional BorgWarner Information
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