

Electric Drivetrain Components



JOHN DEERE

Off-highway electric powertrain experience

John Deere offers modular vehicle electrification solutions that integrate electrical generators and/or motors, power electronics, and mechanical drivetrain interfaces. With more than one million operating hours of proven performance in the field, John Deere electric drivetrain components are available in multiple configurations to help OEMs implement electric and hybrid drive systems in their off-highway applications.

- Seamless integration with John Deere engines, inverters, and drivetrain equipment
- Rugged components designed for high durability and reliability
- Modular configurations to fit a variety of applications

Generator/Hydraulic Pump Drive

Power generation rating	100 – 200 kW (134 – 268 hp)
Hydraulic pump pad outputs	Up to 3



Electric Pump Drive

Power rating	120 – 200 kW (161 – 268 hp)
Hydraulic pump pad outputs	Up to 3



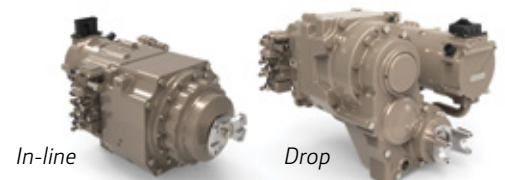
Electric Motor Drive – Single Speed

Power rating	100 kW (134 hp)
Max output torque <i>Gear ratio dependent</i>	4000 Nm (2950 lb-ft)
Max output speed <i>Gear ratio dependent</i>	2400 rpm



Electric Motor Drive – Three Speed

Power rating	100 – 200 kW (134 – 268 hp)
Max output torque	4000 Nm (2950 lb-ft)
Max output speed	4500 rpm
Output configurations	In-line and 4WD drop









PD400 Power Inverters – Single or Dual Output

Power rating	Configurations up to 450 kVA (750 VDC @ 600 Arms)
Continuous current rating	400 Arms
Peak current rating	500 Arms (duration managed by overload software feature)
High voltage bus	180 – 700 VDC



Electric component family

Power range	Power generation	Power conversion		Power electronics
	Generator/hydraulic pump drives	Electric pump drives	Transmissions	Inverters
150 – 200 kW (201 – 268 hp)				
100 – 150 kW (134 – 201 hp)				

Proven off-highway performance

Your equipment deserves nothing less

With John Deere, you get a range of configurations and accessories so you can specify the right engine, drivetrain, and electronic system that best fit your application.

Our continued promise is to provide you with an array of robust designs to meet your demanding OEM needs.

When you choose John Deere power, you know you are getting the best combination of performance, reliability, and durability.

Our application engineers are ready to assist you in selecting the options that best fit your needs. We also offer dedicated OEM service and long-term aftermarket support.

To see the value we can add to your equipment, call us today at 800-533-6446.

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