

# Expanded DOC/SCR Engine Lineup

Final Tier 4 Generator Drive Engines



Delta, BC 1-877-946-5531  
Edmonton, AB 1-877-455-2260  
Calgary, AB 1-877-720-3735  
Winnipeg, MB 1-877-949-1526  
[www.frontierpower.com](http://www.frontierpower.com)



**JOHN DEERE**



## Meeting your prime power needs



John Deere listens closely to generator set manufacturers. That's why we continue to expand our generator drive options to include a range of DOC/SCR engines. They use diesel oxidation catalyst (DOC) and selective catalytic reduction (SCR) technology to meet Final Tier 4 emissions regulations.

These compact and durable engines provide generator set power from 128 to 326 kWm to cover the needs of the prime power market. They meet customer performance expectations without the need for a diesel particulate filter (DPF). In addition to generator sets, these engines can provide power to selected constant speed applications.

## Full line of generator drive engines

PowerTech™ DOC/SCR engines join our complete lineup to give generator set manufacturers more choices for meeting emissions regulations around the world. We will continue to provide DOC/DPF/SCR engines, which deliver the best available control technology (BACT) for reducing particulate matter and provide premium performance when the job requires it. We also offer a full line of Tier 3, Interim Tier 4, and non-emissions certified engines for standby generator sets and nonregulated areas.

### PowerTech PSL 4.5L

128 kWm Standby  
123 kVA Prime



### PowerTech PVL 6.8L

160 and 192 kWm Standby  
154 and 185 kVA Prime



### PowerTech PSL 6.8L

216 and 240 kWm Standby  
210 and 233 kVA Prime



### PowerTech PSL 9.0L

273, 326, and 345 kWm Standby  
265 and 317 kVA Prime



1800 rpm ratings shown

# DOC/SCR Generator Drive Engines



## Low idle speeds

All John Deere DOC/SCR engines have low idle capability for reduced fluid consumption and decreased wear and tear during transport or start-up and shutdown checks.

## Dual frequency

Electronic controls on our DOC/SCR engines make it easy for manufacturers that need 60 Hz and 50 Hz power to switch between 1800 and 1500 rpm without reprogramming.

## Big-engine durability

Heavy-duty components that are usually found in larger engines are used throughout our generator drive engine line. Many of our DOC/SCR engines feature top-liner cooling, steel pistons, and variable-speed fan drives.

- 500-hour oil change
- Replaceable wet-type cylinder liners
- Directed top-liner cooling (6.8L, 9.0L)
- Single-piece, low-friction steel piston with integrated oil-cooled gallery (6.8L, 9.0L)
- Optional variable-speed fan drive improves fuel economy and reduces noise levels
- Low-pressure fuel system with electrical transfer pump and “auto-prime” feature

## Staying in sync

A single electronic control unit (ECU) controls the engine and entire Integrated Emissions Control system. John Deere electronics provide load recovery, clean power, better diagnostics, engine monitoring, and ease of synchronization when operating more than one generator set in parallel. John Deere uses smart governing and throttling selections to make this process seamless — even when paralleling to older mechanical engines.



## Easy operation

John Deere generator drive engines are designed to minimize noise and vibration. All service points are located on a single side for easy access and quick service. Plus, our DOC/SCR engines are simple to operate.

## In a small package

John Deere generator drive engines have always been known for delivering more kWm per liter of displacement. With increased kWm for three ratings, our new DOC/SCR engines continue that tradition of power density, while providing improved engine packaging.



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