

# Introducing the DENSO PowerEdge™ Alternators

***Built to Exceed***



**DENSO**  
**COMMERCIAL &  
HEAVY DUTY**

## **Built to Exceed.**

For more than 30 years DENSO Commercial & Heavy Duty has been building the parts that keep the most powerful commercial trucks operating both on the highway and off. We know that every hour a truck spends out of commission costs money. That's why everything we make is built with the highest precision and craftsmanship to exact OE standards. Our factories are both QS9000 and ISO9000 certified and we designed the DENSO PowerEdge series of alternators for unbeatable reliability and efficiency. DENSO Heavy Duty parts are more dependable, durable and better built, which means lower operating costs for your fleet. It's that simple.





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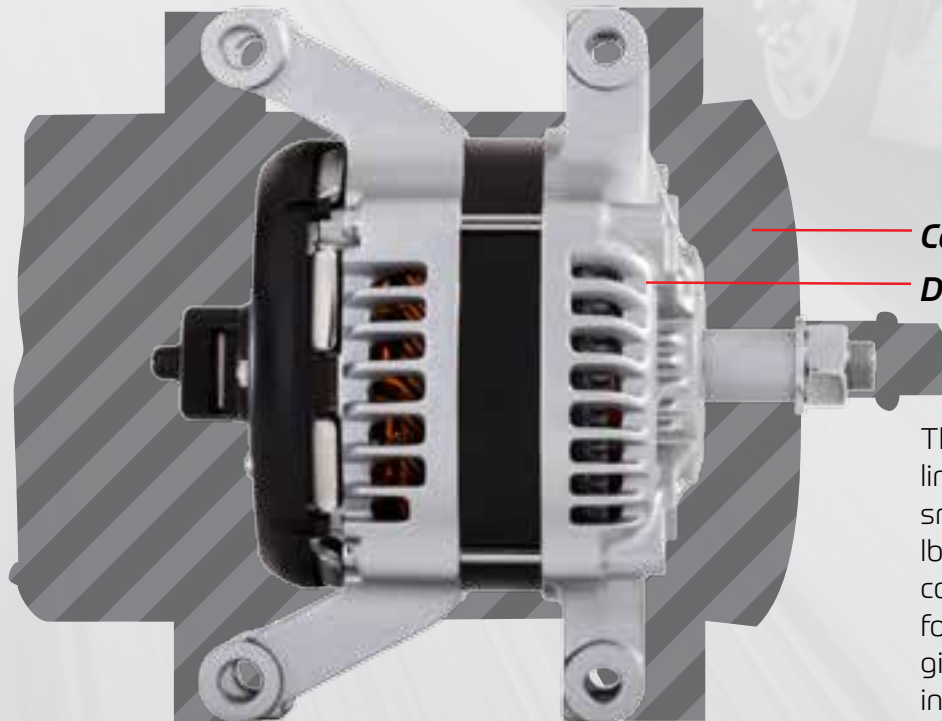
# DENSO PowerEdge

## SQUARE WIRE DESIGN



The innovative square wire design created a breakthrough in alternator engineering that led to increased efficiency, longer life, lower weight and a more compact design.

## SMALLER AND LIGHTER



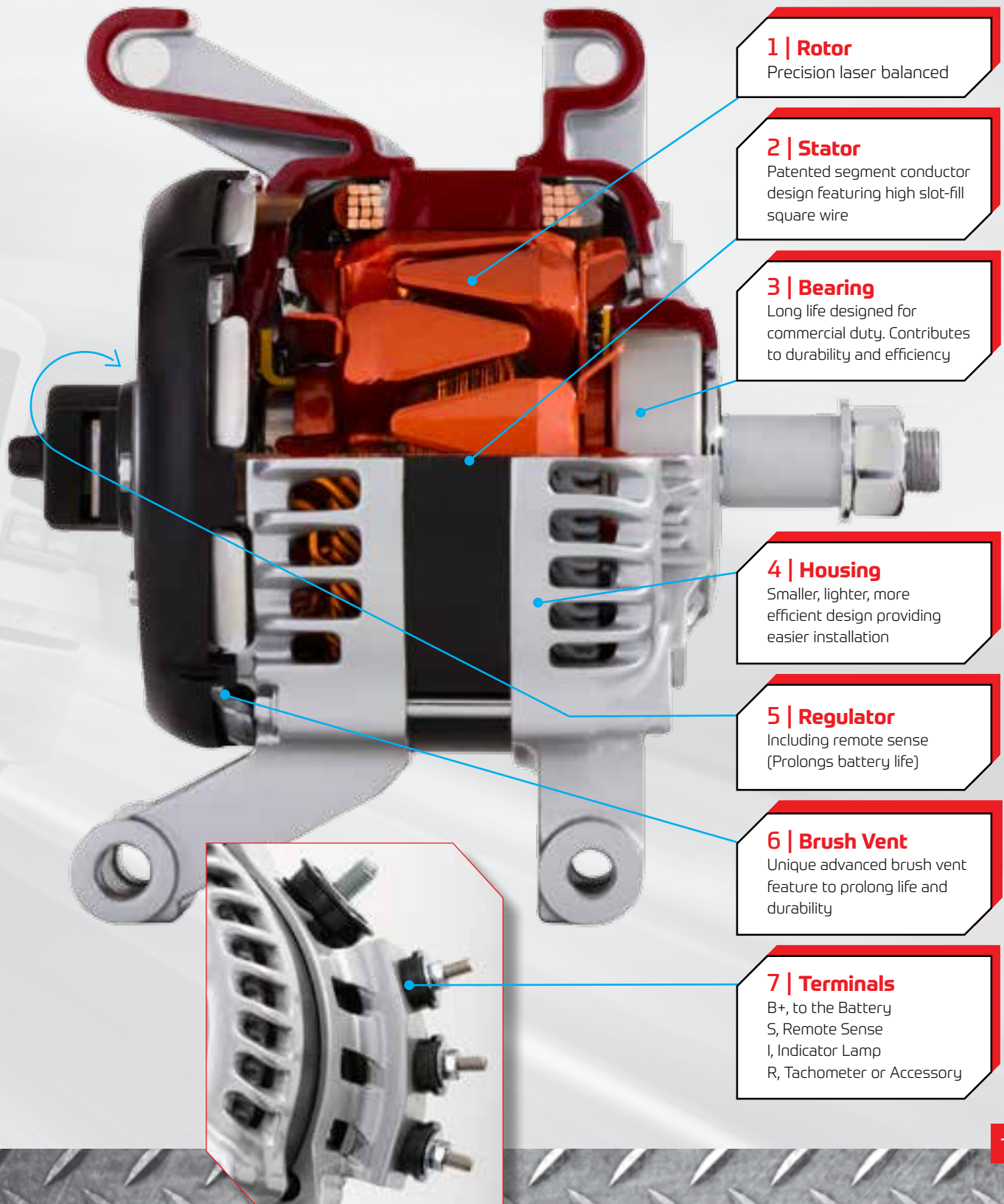
*Competitor*

*DENSO PowerEdge*

The DENSO PowerEdge line of alternators is smaller and averages 10 lbs. lighter than leading competitors. This allows for additional payload and gives technicians ease of installation and service.

# Smaller, lighter and more powerful

The DENSO PowerEdge's compact design and lighter weight gives you increased savings across the board.



**1 | Rotor**  
Precision laser balanced

**2 | Stator**  
Patented segment conductor design featuring high slot-fill square wire

**3 | Bearing**  
Long life designed for commercial duty. Contributes to durability and efficiency

**4 | Housing**  
Smaller, lighter, more efficient design providing easier installation

**5 | Regulator**  
Including remote sense (Prolongs battery life)

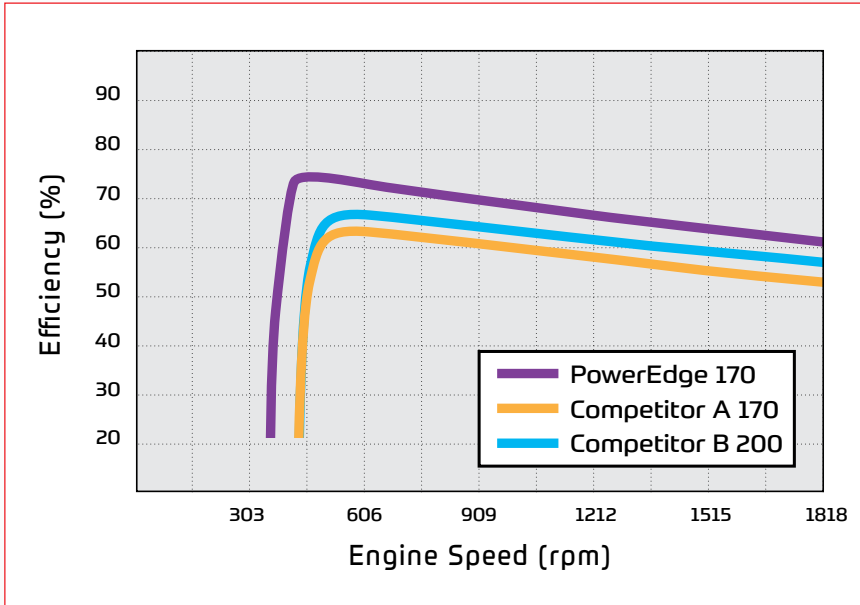
**6 | Brush Vent**  
Unique advanced brush vent feature to prolong life and durability

**7 | Terminals**  
B+, to the Battery  
S, Remote Sense  
I, Indicator Lamp  
R, Tachometer or Accessory

# Leader in Performance

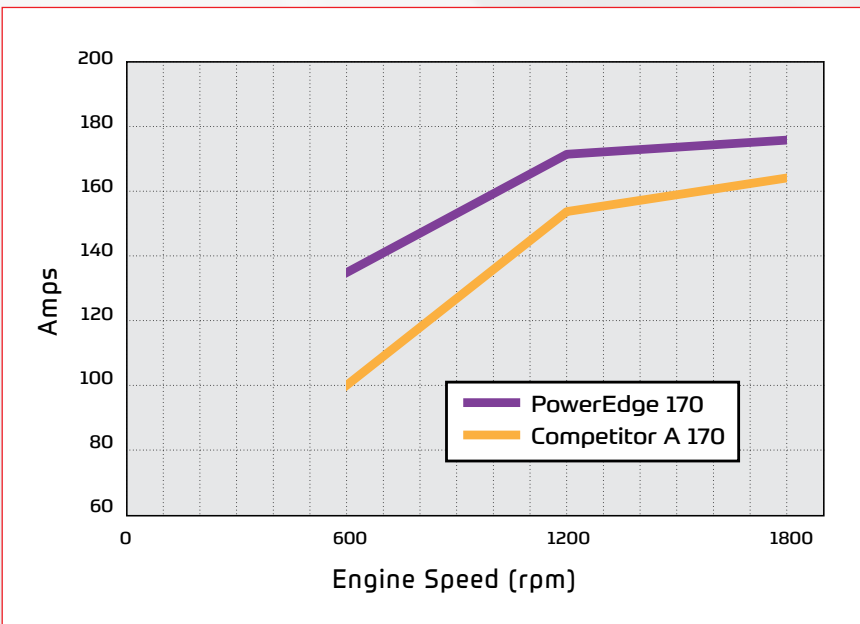
DENSO PowerEdge models outperform competitors in efficiency at any RPM by producing higher amps at idle and cruise speeds.

## LEADER IN EFFICIENCY



In addition to recharging your batteries more efficiently and saving you money by prolonging battery life, the **DENSO PowerEdge** is the most efficient alternator available from any manufacturer. Increased alternator efficiency means less engine power is required to operate the alternator, and that is bound to provide a savings to your bottom line when it comes to fuel expense.

## LEADER IN AMPS



The **DENSO PowerEdge** patented design produces higher amps at idle and cruise speeds, allowing you to confidently, and efficiently, run all the electrical systems you need. With greater amps at idle and cruise than the leading competition, your batteries are restored quicker after start-up, and battery life is prolonged by our remote sense function.

# Durable, Dependable, Quality

DENSO PowerEdge Alternators exceed expectations and consistently perform at one rated amperage level higher than competitors.

## RELIABILITY YOU CAN TRUST

Reliable performance in the field is critical. Today's commercial vehicles place much higher demands on the electrical system. **DENSO PowerEdge** alternators provide for this increased electrical demand while matching or exceeding the operational life of leading competitors. And, using the Salt Spray Test, one of many tests our alternators undergo, we proved that under bad weather conditions, the DENSO PowerEdge durable, dependable quality outperforms the competition where corrosion is a problem.

Performance	Benefits
Superior Efficiency	Reduced fuel consumption
Superior Durability	Long life increases change interval, reducing costs
Higher Amps at Idle	Restores batteries faster, following truck start up
Remote Sense*	Prolongs battery life, reducing costs
Envelope (Size/Weight)	Easier for techs, additional fuel or cargo

\*According to fleets, after driver payroll and fuel, battery replacement is the next most costly expense.

	PowerEdge 170	Competitor A 170 (B. less)	Competitor M 160 (B. less)	PowerEdge 185	PowerEdge 205	Competitor A 200 (Brush)	Competitor B 200 (Brush)	PowerEdge 220
Efficiency (MAX)	72%	64%	64%	72%	72%	65%	67%	72%
Engine RPM 600* (Amps)	135	100	83	143	155	119	120	155
Engine RPM 1200* (Amps)	171	155	145	183	198	191	188	207
Engine RPM 1800* (Amps)	177	164	156	190	205	203	197	217
Weight (Lbs)	16.7	26.7	20.2	16.7	16.7	18.7	18.0	16.7
Length (Inches)	7.7	10.4	7.74	7.7	7.7	8.7	8.3	7.7
Max Pulley Load	4400N			4400N	4400N	3500N	4400N	4400N

\*Truck typical operating range.

# Pad Mount Coverage

The DENSO PowerEdge line of alternators is designed to have 100% of pad-mount coverage.

## APPLICATION GUIDE

Engine Mfr	Engine Type	PowerEdge 170	PowerEdge 185	PowerEdge 205	PowerEdge 220	
<b>CATERPILLAR</b>	C-11	211-9210	211-9211	211-9212	211-9213	
	C-12					
	C-13					
	C-15					
	C-16					
<b>CUMMINS</b>	C8.3					
	C8.3 CNG					
	C8.3 GAS					
	GX					
	ISC					
	ISE ELEC/GAS					
	ISL					
	ISL-G					
	ISM					
	ISX					
	ISX-G					
	L10					
	L8.9 CNG					
	M11					
	N 14					
NTC						
SIG 600/ISX						
SIGNATURE 600						
<b>DETROIT DIESEL</b>	12V71					
	6-71					
	6V53					
	6V92					
	DD13					
	DD15					
	DD16					
	SERIES 30					
	SERIES 40					
	SERIES 50					
	SERIES 55					
	SERIES 60					
	638					
	<b>INTERNATIONAL</b>	MAXXFORCE 11	211-9200	211-9201	211-9202	211-9203
		MAXXFORCE 13				
MAXXFORCE 15						
MAXXFORCE 9610						
<b>MACK</b>	VT225	211-9210	211-9211	211-9212	211-9213	
	MP10					
<b>MERCEDES BENZ</b>	MP7-355E	211-9200	211-9201	211-9202	211-9203	
	MP8					
<b>PACCAR</b>	MBE4000	211-9210	211-9211	211-9212	211-9213	
	M SERIES					
<b>VOLVO</b>	MX	211-9200	211-9201	211-9202	211-9203	
	MX-13					
	PX-6	211-9210	211-9211	211-9212	211-9213	
	PX-7					
	PX-8					
<b>VOLVO</b>	PX-9	211-9200	211-9201	211-9202	211-9203	
	D12					
	D13					
	VE-D11					
	VE-D12					
	VE-D13					
	VE-D16					
VE-D7						



## COMPETITIVE CROSS REFERENCE

Model	Amps	PowerEdge 170		PowerEdge 185		PowerEdge 205		PowerEdge 220	
		Passenger	Driver	Passenger	Driver	Passenger	Driver	Passenger	Driver
		211-9210	211-9200	211-9211	211-9201	211-9212	211-9202	211-9213	211-9203
28SI	160	8600201	8600201						
	180			8600078	8600078				
	200					8600253	8600253		
	200							8600314	8600314
36SI	165	8600015	8600015						
	165	8600073	8600073						
	165	8600248	8600248						
	165	8600252	8600252						
	165	8600367	8600367						
	170	8600127	8600127						
	215							8600252	8600252
	215							8600707	8600707
Bosch LH	160	AL9961LH	AL9961LH						
	200					AL9962SB	AL9962SB		
Bosch LHX	170	AL9920LL	AL9920LL						
	200					AL9921LL	AL9921LL		
Mitsubishi	160	AM1771	AM1771						

# ***Built to Exceed***

For the past three decades, DENSO has been at the forefront of design and technology. This has garnered awards from many major manufacturers including Caterpillar, Cummins, Ford, GM, John Deere and more.



**COMMERCIAL &  
HEAVY DUTY**

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