

## Vendor:

## DENSO

### Vendor Information

DENSO focuses on the needs of each truck manufacturer, and thus, has designed a line of A/C compressors, diesel fuel injection products, starters and alternators to perform to the specific requirements of the medium duty market. As the world's largest starter manufacturer, our starters simply install faster and perform better under rigorous conditions. The DENSO commitment to quality, durability, and innovation is the reason our components are truly better by design.

### Customer Service & Technical Support

Hino Parts Support Phone: 866-372-4466  
Hino Parts Support Email: [helpdesk@hino.com](mailto:helpdesk@hino.com)  
Hino Parts Support Fax: 662-342-3939  
Denso Phone: 888-96DENSO (888-963-3676)  
Denso Web: <http://www.densoheavyduty.com/>

### Order Procedures:

All orders are to be placed through the Hino Dealer Connect System (DCS). For special orders or for customer support contact Vendor directly via phone number.

**Stock Orders** Enter orders in DCS Screen DC202 under Sales Type "S". All direct ship items will be shipped from a local Vendor PDC.

**Emergency Orders** Emergency orders may be entered into DCS screen DC202 as a Sales Type "E" or "V". All emergency orders will be processed with a "Rush" order. Freight and Handling fees will be identified on the Hino invoice.

**Minimum Order Quantity** There is no minimum order requirement on emergency or stock orders, however to achieve free freight order must be over 8 pieces (AC Compressors, Alternators, & Starters).

**Freight Policy:** All orders are shipped from Long Beach, CA unless otherwise specified. All orders will be shipped via the most efficient method.

### Free Freight Policy:

**Compressors, starters or alternators:**  
8+ ship FOB Destination, freight prepaid (mix and match).  
Orders under 8 will be shipped pre-paid and added to the invoice.  
**Spark Plugs:**  
60+ plugs (multiples of 4) freight is covered by Denso.  
4+ plugs (multiples of 4) with 8+ compressors, starters or alternators freight is covered by Denso.  
59 or less plugs only the order is NOT accepted by Denso and Denso will contact Hino advising to revise their order.

### Order Fulfillment Policy:

The standard order processing time is 8-10 business days from date of order placement.

### Part Number Pricing:

Pricing will be available on-line in the Hino DCS system. In addition, the prices will be forwarded to your service bureaus within two weeks of each pricing update.

### Format:

Standard Part numbers are directly carried over; no prefix or suffix.

### Mega Fleet:

All-Makes parts are not included in the Hino Mega Fleet pricing file but should be sold to Mega Fleet customers and filed as Miscellaneous Items in Corcentric when submitting for reimbursement.

### Warranty:

Please always view Suppliers warranty documents as warranty varies based on items/products/vehicle applications, etc...  
Contact vendor directly for a RGA approval number. Warranty covers manufacturers defects only and does not cover damage (installation or progressive). If the vendor provides a RGA number, contact Hino Trucks warranty department. Warranty claims are to be sent back through Hino Trucks corporate.

### Returns:

Parts are eligible for return for up to 1 year of purchase date. Freight paid for by dealer. RGA Required. Contact vendor directly to obtain a Return Goods Authorization code by phone number or email address listed above. All returned items MUST have prior approval and the Return Goods Authorization (RGA) marked on the outside of the box. RGAs have an expiration date of sixty (60) days; after sixty (60) days the return will become null and void. All returns are subject to a 10% or greater restocking fee. Will not authorize any returns that are not properly packaged or in the original packaging. No credit will be issued for product that has been damaged, altered, or installed on equipment. The customer is responsible for all freight charges on the returned merchandise. Special order items or non stock items are not returnable.

### Shipping Inspection and Damaged Product:

All merchandise should be inspected upon arrival and carrier damage claims should be filed with the carrier immediately. We are not responsible for, nor are we in a position to make a claim after the freight carrier accepts the shipment from us. For excess stock returns, contact the Vendor directly.

### Vendor Cross Reference Web Site:

<http://www.densoheavyduty.com/find-my-part.php>

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# INTRODUCING THE NEW DENSO HI-AMP POWEREDGE™ ALTERNATORS

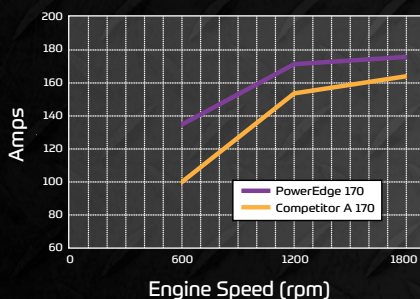
## Committed to Continuous Improvement

### The Five Pillars of Performance

- 1** EFFICIENCY FOR THE LONG RUN
- 2** HIGHER AMPS AT IDLE & CRUISE SPEED
- 3** RELIABILITY IN SEVERE ENVIRONMENTS
- 4** LOWER OVERALL OPERATING COSTS
- 5** LOWER WEIGHT & SMALLER SIZE

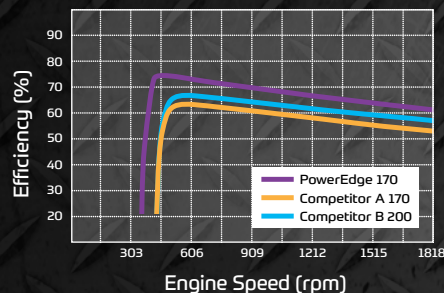


#### LEADER IN AMPS



DENSO PowerEdge consistently produces greater amps at all RPMs than comparable brushless models.

#### LEADER IN EFFICIENCY



DENSO PowerEdge models exceed expectations in their efficiency.

#### INNOVATIVE SQUARE WIRE DESIGN



High Slot-Fill Square Wire

Breakthrough wire design created the smaller and lighter weight models.



**COMMERCIAL &  
HEAVY DUTY**  
*Built to Exceed*

DENSO Products and Services Americas, Inc.

888.96.DENSO

[DENSOHeavyDuty.com](http://DENSOHeavyDuty.com)

3900 Via Oro Avenue

Long Beach, CA 90810

# PAD MOUNT COVERAGE

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



DENSOHeavyDuty.com

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HEAVY DUTY**  
*Built to Exceed*

## APPLICATION GUIDE

| Engine Manufacturer | Engine Type    | PowerEdge 170 | PowerEdge 185 | PowerEdge 205 | PowerEdge 220 |
|---------------------|----------------|---------------|---------------|---------------|---------------|
| CATERPILLAR         | C11            | 211-9210      | 211-9211      | 211-9212      | 211-9213      |
|                     | C12            |               |               |               |               |
|                     | C13            |               |               |               |               |
|                     | C15            |               |               |               |               |
|                     | C16            |               |               |               |               |
| CUMMINS             | GX             |               |               |               |               |
|                     | ISC            |               |               |               |               |
|                     | ISL            |               |               |               |               |
|                     | ISL-G          |               |               |               |               |
|                     | ISM            |               |               |               |               |
|                     | ISX            |               |               |               |               |
|                     | ISX-G          |               |               |               |               |
| DETROIT DIESEL      | DD13           |               |               |               |               |
|                     | DD15           |               |               |               |               |
|                     | DD16           |               |               |               |               |
|                     | DD60           |               |               |               |               |
| INTERNATIONAL       | MAXXFORCE 11   | 211-9200      | 211-9201      | 211-9202      | 211-9203      |
|                     | MAXXFORCE 13   |               |               |               |               |
|                     | MAXXFORCE 15   | 211-9210      | 211-9211      | 211-9212      | 211-9213      |
|                     | MAXXFORCE 9610 |               |               |               |               |
|                     | MAXXFORCE DT   |               |               |               |               |
| MACK                | MP7            | 211-9200      | 211-9201      | 211-9202      | 211-9203      |
|                     | MP8            |               |               |               |               |
|                     | MP10           |               |               |               |               |
| MERCEDES BENZ       | MBE4000        | 211-9210      | 211-9210      | 211-9212      | 211-9213      |
| PACCAR              | MX-13          | 211-9200      | 211-9201      | 211-9202      | 211-9203      |
|                     | PX-8           | 211-9210      | 211-9211      | 211-9212      | 211-9213      |
|                     | PX-9           |               |               |               |               |
| VOLVO               | D11            | 211-9200      | 211-9201      | 211-9202      | 211-9203      |
|                     | D13            |               |               |               |               |
|                     | D16            |               |               |               |               |
|                     | VE-D12         |               |               |               |               |
|                     | DD60           | 211-9210      | 211-9211      | 211-9212      | 211-9213      |

# CUMMINS 8.3 ISC AND 8.9 ISL STARTER

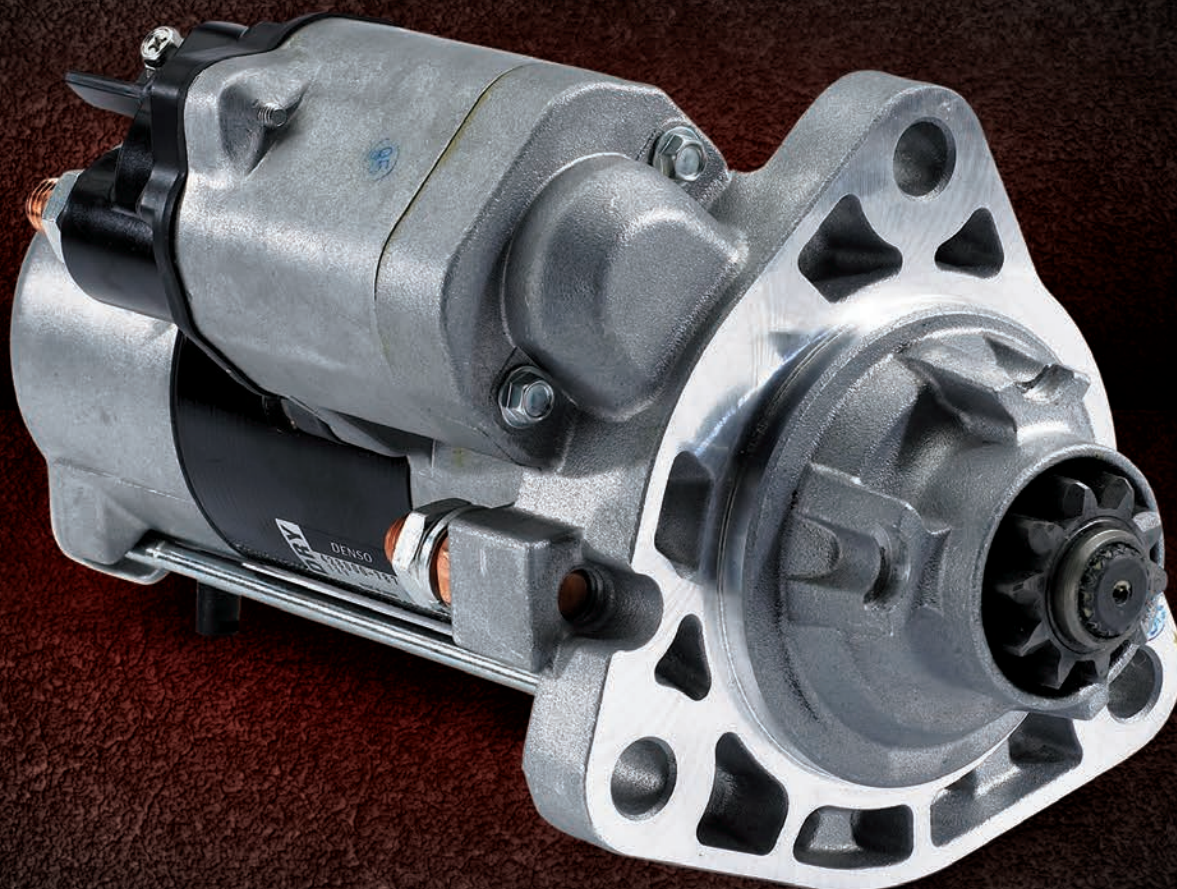
New planetary gear reduction starter for mid-sized Cummins motors. Smaller package clears tight fitting applications.

## DENSO Part Numbers

12 Volt: 428000-7870

24 Volt: 428000-7140

24 Volt: 438000-3220



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3900 Via Oro Avenue  
Long Beach, CA 90810

Now Available

# Iridium Saver Spark Plug and Boot Kit

for Cummins ISL Engines

***Built to Exceed***

- Precision Manufacturing
- Designed Durability



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

# Iridium Saver Spark Plug and Boot Kit

for Cummins ISL Engines

**DENSO** is pleased to offer the GK3-7 Iridium Saver Spark Plug and rubber boot kit for Cummins ISL-G engines. This protective rubber boot insulates the plug from the harsh engine environment. Combined with our reliable, long lasting Iridium Saver Spark Plug, DENSO is the perfect combination for Cummins CNG engines.

## SPARK PLUG

Part Number: GK3-7#4

Package Contents: (4) Iridium 3 Prong Spark Plug



## BOOT

Part Number: 674-1000

Package Contents: (1) Boot; (1) Dielectric Grease



## Iridium Saver Benefits

- Unique Iridium Alloy
- 360 Laser Welding
- Highly reliable Monolithic Resistor
- Special nickel plating with better corrosive resistance
- High dielectric ceramics

To place your order, please contact Customer Service at 877-675-5463 or [customer.service@densodrive.com](mailto:customer.service@densodrive.com)



DENSOHeavyDuty.com  
DENSO Products and Services Americas, Inc.  
3900 Via Oro Avenue, Long Beach, CA 90810 310.834.6352

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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.

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.

Introducing the DENSO PowerEdge™ Alternators

Built to Exceed



COMMERCIAL & HEAVY DUTY



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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COMPETITIVE CROSS REFERENCE

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

# DENSO PowerEdge

## Smaller, lighter and more powerful

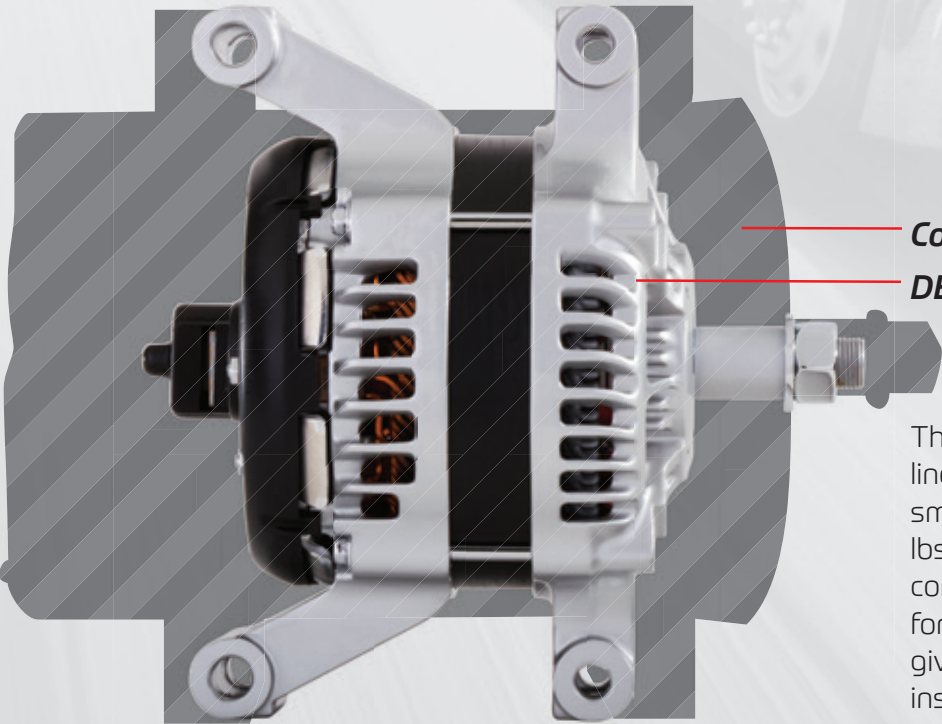
The DENSO PowerEdge's compact design and lighter weight gives you increased savings across the board.

### SQUARE WIRE DESIGN



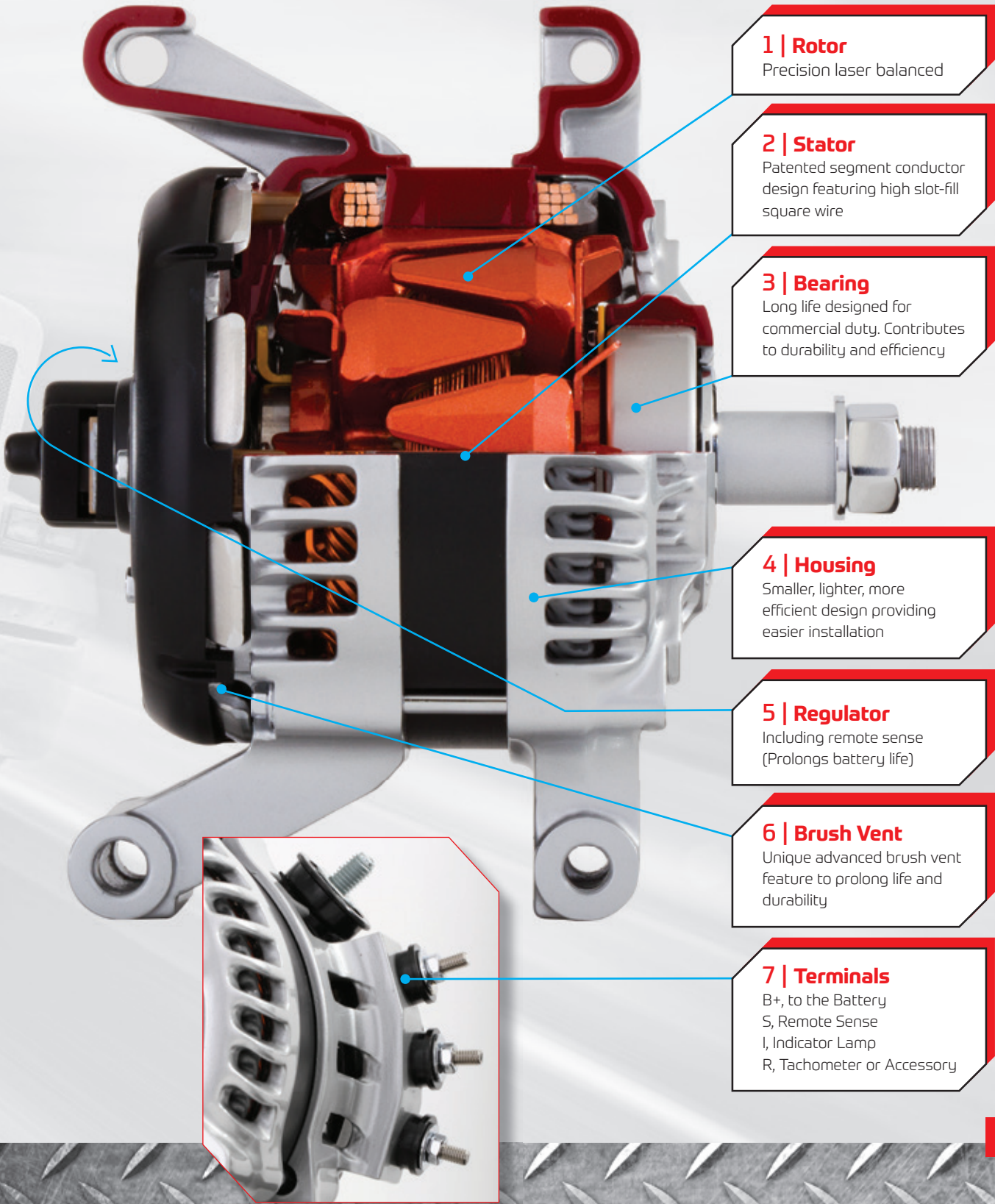
The innovative square wire design created a breakthrough in alternator engineering that led to increased efficiency, longer life, lower weight and a more compact design.

### SMALLER AND LIGHTER



**Competitor**  
**DENSO PowerEdge**

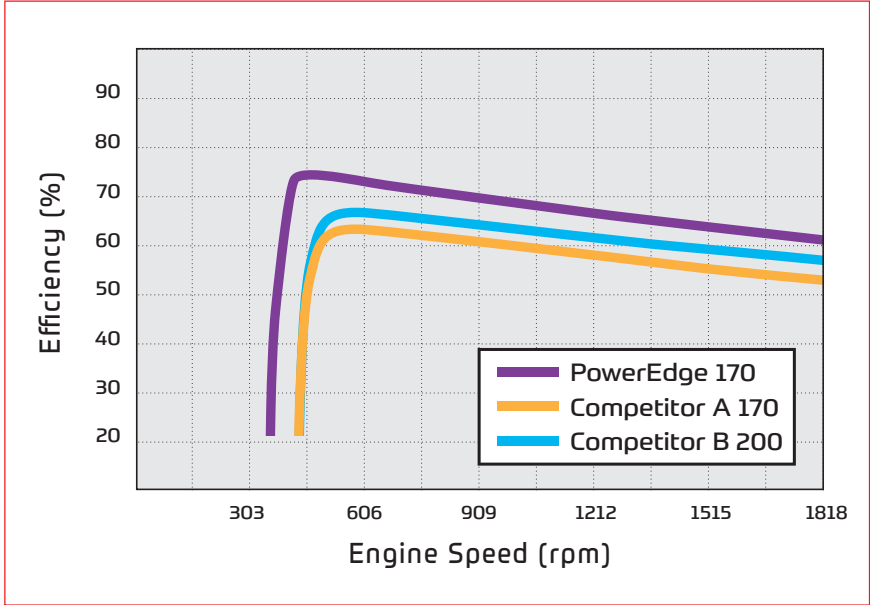
The DENSO PowerEdge line of alternators is smaller and averages 10 lbs. lighter than leading competitors. This allows for additional payload and gives technicians ease of installation and service.



# Leader in Performance

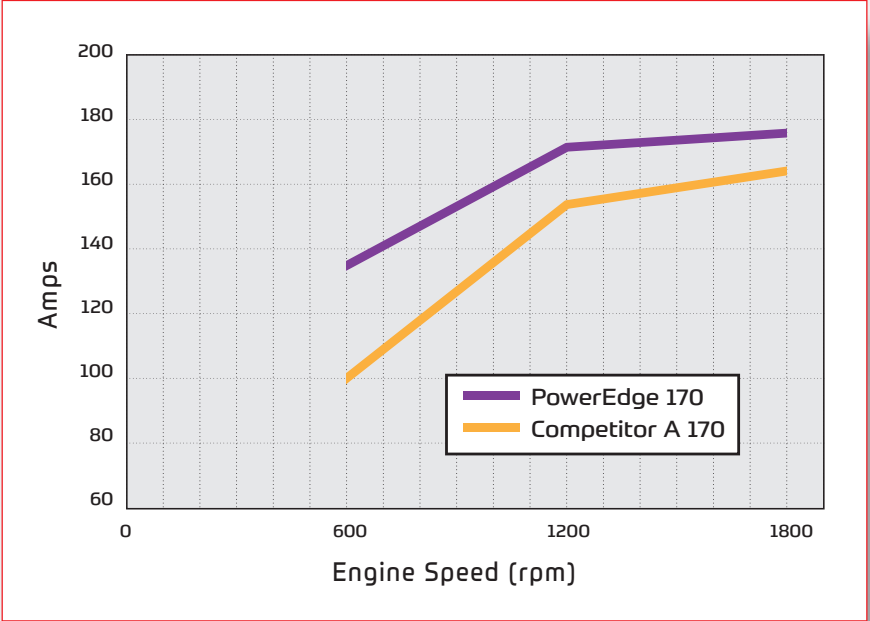
DENSO PowerEdge models outperform competitors in efficiency at any RPM by producing higher amps at idle and cruise speeds.

## 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.

# 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 |
|----------------|----------------|---------------|---------------|---------------|---------------|
| CATERPILLAR    | C-11           | 211-9210      | 211-9211      | 211-9212      | 211-9213      |
|                | C-12           |               |               |               |               |
|                | C-13           |               |               |               |               |
|                | C-15           |               |               |               |               |
|                | C-16           |               |               |               |               |
| CUMMINS        | 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            |               |               |               |               |
|                | N14            |               |               |               |               |
| DETROIT DIESEL | NTC            |               |               |               |               |
|                | SIG 600/ISX    |               |               |               |               |
|                | SIGNATURE 600  |               |               |               |               |
|                | 12V71          |               |               |               |               |
|                | 6-71           |               |               |               |               |
|                | 6V53           |               |               |               |               |
|                | 6V92           |               |               |               |               |
|                | DD13           |               |               |               |               |
|                | DD15           |               |               |               |               |
|                | DD16           |               |               |               |               |
|                | SERIES 30      |               |               |               |               |
|                | SERIES 40      |               |               |               |               |
|                | SERIES 50      |               |               |               |               |
|                | SERIES 55      |               |               |               |               |
|                | SERIES 60      |               |               |               |               |
| INTERNATIONAL  | 638            | 211-9200      | 211-9201      | 211-9202      | 211-9203      |
|                | MAXXFORCE 11   |               |               |               |               |
|                | MAXXFORCE 13   |               |               |               |               |
|                | MAXXFORCE 15   |               |               |               |               |
|                | MAXXFORCE 9610 |               |               |               |               |
| MACK           | VT225          | 211-9210      | 211-9211      | 211-9212      | 211-9213      |
|                | MP10           |               |               |               |               |
|                | MP7-355E       |               |               |               |               |
| MERCEDES BENZ  | MP8            | 211-9200      | 211-9201      | 211-9202      | 211-9203      |
|                | MBE4000        |               |               |               |               |
| PACCAR         | M SERIES       | 211-9210      | 211-9211      | 211-9212      | 211-9213      |
|                | MX             |               |               |               |               |
|                | MX-13          |               |               |               |               |
|                | PX-6           |               |               |               |               |
|                | PX-7           |               |               |               |               |
| VOLVO          | PX-8           | 211-9210      | 211-9211      | 211-9212      | 211-9213      |
|                | PX-9           |               |               |               |               |
|                | D12            |               |               |               |               |
|                | D13            |               |               |               |               |
|                | VE-D11         |               |               |               |               |
|                | VE-D12         |               |               |               |               |
|                | VE-D13         |               |               |               |               |
|                | VE-D16         | 211-9200      | 211-9201      | 211-9202      | 211-9203      |
|                | VE-D7          |               |               |               |               |