

# Generator Drive Diesel Engines



**JOHN DEERE**





## CONTENTS

|                                                                 |            |
|-----------------------------------------------------------------|------------|
| <b>Generator drive engines .....</b>                            | <b>4–5</b> |
| <b>The John Deere difference .....</b>                          | <b>6–9</b> |
| <b>Engines for EPA Final Tier 4 and EU Stage V applications</b> |            |
| Dual frequency 60 Hz/50 Hz .....                                | 10–11      |
| <b>Engines for EPA Final Tier 4 applications</b>                |            |
| Dual frequency 60 Hz/50 Hz .....                                | 12–13      |
| <b>Engines for EPA Tier 3 and NSPS applications</b>             |            |
| Stage III A and EPA Tier 3 .....                                | 14–15      |
| <b>Engines for EPA Tier 3 and EU Stage III A applications</b>   |            |
| Dual frequency 60 Hz/50 Hz .....                                | 16–17      |
| <b>Engines for non-emissions regulated applications</b>         |            |
| Dual frequency 60 Hz/50 Hz .....                                | 18–19      |
| <b>Definitions and conversions.....</b>                         | <b>20</b>  |

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Visit [JohnDeere.com/JDPower](https://JohnDeere.com/JDPower).

# Generator drive engines

John Deere generator drive engines are built to perform in extreme conditions with reliable operation, low maintenance, long engine life, and exceptional fluid economy. They give you the power to meet any challenge.

## ***Prime or standby power***

John Deere generator drive engines are ready when and where you need them. They provide fast response for standby situations and exceptional load recovery in a wide variety of applications.

## ***A smart choice***

With John Deere, you get a wide range of configurations and accessories so you can specify the right engine that best fits your application. Our preconfigured options and innovative technologies can help save hours of engineering time and help you get machines to market faster.

## ***Extensive integration network***

You get expert integration assistance provided by John Deere engineers and distributors. OEMs can put our application engineering experience and know-how to work to help save development time and money.

## ***Unparalleled customer support***

With more than 9,000 John Deere service locations worldwide, you never have far to go to find expert assistance and advice. We support you not just at the beginning, but throughout the full lifetime of our products.

## ***Ultimate uptime***

Our distributors and dealers stock maintenance parts, as well as many other common replacement parts, to meet your service needs quickly. Our worldwide parts distribution system offers overnight delivery in most regions.

# The John Deere difference

## Proven performance



### *Off-highway experience*

John Deere has billions of hours of field experience with off-highway engine technologies.



### *Load acceptance*

Tailored turbocharging technology provides exceptional load acceptance and block loading capability.

Engines with cooled exhaust gas recirculation (EGR) deliver up to eight times better transient response than non-EGR engines. The potential energy transferred through EGR is immediately available to the turbo to generate boost.

John Deere engines meet ISO 8528-12 Class G3 international standards for most ratings.

## Reliable uptime



### *Day-to-day reliability*

John Deere engines feature top-liner cooling, efficient lubrication, and robust cooling systems for reliable operation.



### *Long-haul durability*

John Deere engines are designed for rugged applications. Most models feature heavy-duty oversized components, steel pistons, and wet-type cylinder liners for long engine life.



### *Extreme conditions*

Engines are built to operate in hot and dry, sub-zero, and humid climates as well as high altitudes. The engine control unit (ECU) monitors and protects engine components in extreme conditions. In regions where fuel quality may vary, John Deere protects the engine with two-stage fuel filtration and water detection.

# The John Deere difference

## Efficient operation



### ***Fuel efficiency***

The efficient design of the John Deere combustion chamber with high-ring pistons helps deliver excellent fuel economy.



### ***Less DEF***

Cooled EGR enables the use of a smaller selective catalytic reduction (SCR) system and lower diesel exhaust fluid (DEF) consumption compared to non-EGR John Deere engines. John Deere engines with EGR use 1% to 3% less DEF compared to non-EGR engines.



### ***Low-idle capability***

Reduces fluid consumption and decreases wear during transport or startup and shutdown checks.



### ***Lifecycle costs***

Reliable operation, low maintenance, long engine life, and exceptional fluid economy lead to low cost of operation with John Deere engines.

## Easy integration



### ***Preconfigured power units***

Many John Deere engine packages come with mounting pads, cooling package, and air filter for ease of design and installation.



### ***Dual frequency***

Manufacturers that need 50 Hz and 60 Hz power can switch between 1500 and 1800 rpm without reprogramming.



### ***Power density***

John Deere engines are designed to deliver maximum power in a compact engine package. They are known for delivering exceptional kWm per liter of displacement.



### ***Integration flexibility***

With multiple parts options and various aftertreatment outlet and inlet choices, OEMs may have to do less modification to integrate John Deere engines. Easy configurability saves development costs and reduces delivery time to market.

# Engines for EPA Final Tier 4 and EU Stage V applications

## Dual frequency 60 Hz/50 Hz

Dual-frequency engines for worldwide use. OEM customers currently using a John Deere Stage IV engine with a DPF won't have to re-engineer the machine design to meet the requirements of Stage V regulations.

| Node                             | Engine name | Type   | Engine model | Power unit model* | Speed | Standby ratings |     |     | Prime ratings |     |     | Generator efficiency | Fan power | Dual freq. | RoHS † |
|----------------------------------|-------------|--------|--------------|-------------------|-------|-----------------|-----|-----|---------------|-----|-----|----------------------|-----------|------------|--------|
| kVA prime                        |             |        |              |                   | rpm   | kWm             | kVA | kWe | kWm           | kVA | kWe | %                    | kW        |            |        |
| DOC and DPF aftertreatment       |             |        |              |                   |       |                 |     |     |               |     |     |                      |           |            |        |
| 30                               | EWX 2.9L    | 3 cyl. | 3029HG530    | 3029HP530         | 1800  | 36              | 38  | 31  | 33            | 35  | 28  | 90                   | 1.8       | ■          | ■      |
|                                  |             |        |              |                   | 1500  | 36              | 38  | 31  | 33            | 35  | 28  | 90                   | 1.8       |            |        |
| 40                               | EWX 2.9L    | 3 cyl. | 3029HG530    | 3029HP530         | 1800  | 48              | 51  | 41  | 44            | 46  | 37  | 90                   | 2.4       | ■          | ■      |
|                                  |             |        |              |                   | 1500  | 48              | 51  | 41  | 44            | 46  | 37  | 90                   | 2.4       |            |        |
| 55                               | EWX 2.9L    | 3 cyl. | 3029HG530    | 3029HP530         | 1800  | 55              | 59  | 47  | 50            | 53  | 43  | 90                   | 2.8       | ■          | ■      |
|                                  |             |        |              |                   | 1500  | 55              | 59  | 47  | 50            | 53  | 43  | 90                   | 2.8       |            |        |
| DOC, DPF, and SCR aftertreatment |             |        |              |                   |       |                 |     |     |               |     |     |                      |           |            |        |
| 80                               | EWS 4.5L    | 4 cyl. | 4045HG551    | 4045HP551         | 1800  | 86              | 94  | 75  | 78            | 85  | 68  | 92                   | 4.3       | ■          | ■      |
|                                  |             |        |              |                   | 1500  | 83              | 91  | 73  | 76            | 82  | 66  | 92                   | 4.2       |            |        |
| 100                              | EWS 4.5L    | 4 cyl. | 4045HG551    | 4045HP551         | 1800  | 106             | 116 | 93  | 96            | 105 | 84  | 92                   | 5.3       | ■          | ■      |
|                                  |             |        |              |                   | 1500  | 103             | 113 | 90  | 94            | 102 | 81  | 92                   | 5.2       |            |        |
| 150                              | PVS 6.8L    | 6 cyl. | 6068HG550    | 6068HP550         | 1800  | 180             | 199 | 159 | 164           | 180 | 144 | 93                   | 9.0       | ■          | ■      |
|                                  |             |        |              |                   | 1500  | 165             | 182 | 146 | 150           | 165 | 132 | 93                   | 8.3       |            |        |
| 200                              | PSS 6.8L    | 6 cyl. | 6068CG550    | 6068CP550         | 1800  | 216**           | 239 | 191 | 197           | 216 | 173 | 93                   | 10.8      | ■          | ■      |
|                                  |             |        |              |                   | 1500  | 202             | 223 | 178 | 184           | 202 | 162 | 93                   | 10.1      |            |        |
| 275                              | PSS 9.0L    | 6 cyl. | 6090CG550    | 6090CP550         | 1800  | 273             | 301 | 241 | 248           | 273 | 218 | 93                   | 13.7      | ■          | ■      |
|                                  |             |        |              |                   | 1500  | 273             | 301 | 241 | 248           | 273 | 218 | 93                   | 13.7      |            |        |
| 300                              | PSS 9.0L    | 6 cyl. | 6090CG550    | 6090CP550         | 1800  | 326             | 360 | 288 | 297           | 326 | 261 | 93                   | 16.3      | ■          | ■      |
|                                  |             |        |              |                   | 1500  | 304             | 336 | 269 | 277           | 304 | 243 | 93                   | 15.2      |            |        |
| 500                              | JD14X       | 6 cyl. | 6136CG550    | —                 | 1800  | 505             | 555 | 444 | 462           | 500 | 400 | 93                   | 28.0      | ■          | ■      |
|                                  |             |        |              |                   | 1500  | 505             | 564 | 451 | 462           | 507 | 406 | 93                   | 20.0      |            |        |

\* Power unit includes factory-mounted cooling package, air filter, and feet.  
† The majority of John Deere Stage V engines comply with the European Union's Restriction of Hazardous Substances (RoHS) Directive, 2011/65/EU, as amended.  
‡ Rating at 241 kWm is also available.

The majority of John Deere Stage V engines are RoHS compliant for the Restriction of Hazardous Substances in the EU.

# Engines for EPA Final Tier 4 applications

## Dual frequency 60 Hz/50 Hz

Meeting emissions regulations without the need for a diesel particulate filter (DPF). These diesel oxidation catalyst/selective catalytic reduction (DOC/SCR) engines provide compact power and low installation costs.

| Node                       | Engine name | Type   | Engine model | Speed | Standby ratings |     |     | Prime ratings |     |     | Generator efficiency | Fan power | Dual freq. |
|----------------------------|-------------|--------|--------------|-------|-----------------|-----|-----|---------------|-----|-----|----------------------|-----------|------------|
| kVA (kWE) prime            |             |        |              | rpm   | kWm             | kVA | kWe | kWm           | kVA | kWe | %                    | kW        |            |
| DOC and DPF aftertreatment |             |        |              |       |                 |     |     |               |     |     |                      |           |            |
| 55 (40)                    | EWX 4.5L    | 4 cyl. | 4045TFG03    | 1800  | 55              | 57  | 46  | 50            | 52  | 41  | 90                   | 3.9       | -          |
| DOC and SCR aftertreatment |             |        |              |       |                 |     |     |               |     |     |                      |           |            |
| 60 (50)                    | PWL 4.5L    | 4 cyl. | 4045HFG04    | 1800  | 68              | 71  | 57  | 62            | 64  | 51  | 90                   | 4.8       | ■          |
|                            |             |        |              | 1500  | 68              | 72  | 57  | 62            | 65  | 52  | 90                   | 4.4       |            |
| 75 (60)                    | PWL 4.5L    | 4 cyl. | 4045HFG04    | 1800  | 80              | 84  | 67  | 73            | 76  | 60  | 90                   | 5.6       | ■          |
|                            |             |        |              | 1500  | 80              | 84  | 67  | 73            | 76  | 61  | 90                   | 5.1       |            |
| 95 (75)                    | PWL 4.5L    | 4 cyl. | 4045HFG04    | 1800  | 99              | 106 | 85  | 90            | 96  | 76  | 92                   | 6.9       | ■          |
|                            |             |        |              | 1500  | 80              | 85  | 68  | 73            | 77  | 61  | 92                   | 6.3       |            |
| 125 (100)                  | PSL 4.5L    | 4 cyl. | 4045CG440    | 1800  | 128             | 138 | 111 | 117           | 126 | 101 | 92                   | 7.7       | ■          |
|                            |             |        |              | 1500  | 112             | 121 | 97  | 102           | 109 | 87  | 92                   | 7.1       |            |
| 155 (125)                  | PVL 6.8L    | 6 cyl. | 6068HFG05    | 1800  | 160             | 174 | 139 | 146           | 158 | 126 | 92                   | 9.0       | ■          |
|                            |             |        |              | 1500  | 160             | 175 | 140 | 146           | 158 | 127 | 92                   | 8.2       |            |
| 190 (150)                  | PVL 6.8L    | 6 cyl. | 6068HFG05    | 1800  | 192             | 211 | 169 | 175           | 191 | 153 | 93                   | 10.8      | ■          |
|                            |             |        |              | 1500  | 165             | 180 | 144 | 150           | 163 | 130 | 93                   | 9.9       |            |
| 210 (170)                  | PSL 6.8L    | 6 cyl. | 6068HFG06    | 1800  | 216             | 236 | 189 | 196           | 213 | 171 | 93                   | 13.0      | ■          |
|                            |             |        |              | 1500  | 197             | 215 | 172 | 179           | 194 | 155 | 93                   | 11.8      |            |
| 235 (190)                  | PSL 6.8L    | 6 cyl. | 6068HFG06    | 1800  | 240             | 262 | 210 | 218           | 237 | 190 | 93                   | 14.4      | ■          |
|                            |             |        |              | 1500  | 197             | 214 | 171 | 179           | 193 | 154 | 93                   | 13.1      |            |
| 270 (215)                  | PSL 9.0L    | 6 cyl. | 6090HFG06    | 1800  | 273             | 298 | 239 | 249           | 270 | 216 | 93                   | 16.4      | ■          |
|                            |             |        |              | 1500  | 273             | 300 | 240 | 249           | 272 | 218 | 93                   | 14.9      |            |
| 320 (250)                  | PSL 9.0L    | 6 cyl. | 6090HFG06    | 1800  | 326             | 356 | 285 | 297           | 322 | 258 | 93                   | 19.6      | ■          |
|                            |             |        |              | 1500  | 300             | 328 | 262 | 273           | 297 | 237 | 93                   | 17.8      |            |
| -                          | PSL 9.0L    | 6 cyl. | 6090HFG06    | 1800  | 345             | 377 | 302 | -             | -   | -   | 93                   | 20.7      | ■          |
|                            |             |        |              | 1500  | 300             | 327 | 261 | -             | -   | -   | 93                   | 18.9      |            |
| 500 (400)                  | JD14X       | 6 cyl. | 6136CG440    | 1800  | 505             | 555 | 444 | 462           | 500 | 400 | 93                   | 27.6      | ■          |
|                            |             |        |              | 1500  | 505             | 564 | 451 | 462           | 507 | 406 | 93                   | 20.0      |            |

# Engines for EPA Tier 3 and New Source Performance Standards (NSPS) applications 60 Hz

Engines for emergency standby applications.  
These mechanical and electronic engines provide reliable,  
compact power and low installation costs.

| Node              | Engine name | Type   | Engine model | Speed | Standby ratings |     |     | Prime ratings |     |     | Generator efficiency | Fan power |
|-------------------|-------------|--------|--------------|-------|-----------------|-----|-----|---------------|-----|-----|----------------------|-----------|
| kVA (kWe) standby |             |        |              | rpm   | kWm             | kVA | kWe | kWm           | kVA | kWe | %                    | kW        |
| 35 (30)           | M 2.9L      | 3 cyl. | 3029TFG89    | 1800  | 35              | 37  | 30  | 31            | 32  | 29  | 90                   | 2.2       |
| 50 (40)           | M 2.9L      | 3 cyl. | 3029HFG89    | 1800  | 46              | 49  | 39  | 42            | 44  | 35  | 90                   | 2.9       |
| 60 (50)           | M 4.5L      | 4 cyl. | 4045TF290    | 1800  | 55              | 58  | 47  | 50            | 53  | 42  | 90                   | 3.3       |
| 70 (55)           | M 4.5L      | 4 cyl. | 4045TF280    | 1800  | 63              | 69  | 55  | 57            | 62  | 50  | 90                   | 1.9       |
| 80 (65)           | M 4.5L      | 4 cyl. | 4045HF280    | 1800  | 74              | 81  | 65  | 67            | 73  | 58  | 90                   | 2.2       |
| 80 (65)           | E 4.5L      | 4 cyl. | 4045TF285    | 1800  | 74              | 77  | 62  | 67            | 70  | 56  | 90                   | 5.2       |
| 100 (80)          | E 4.5L      | 4 cyl. | 4045HF285    | 1800  | 94              | 102 | 82  | 86            | 93  | 74  | 92                   | 5.2       |
| 125 (100)         | E 4.5L      | 4 cyl. | 4045HF285    | 1800  | 118             | 128 | 103 | 107           | 116 | 92  | 92                   | 6.5       |
| 160 (125)         | Plus 4.5L   | 4 cyl. | 4045HFG85    | 1800  | 147             | 162 | 129 | 134           | 147 | 117 | 92                   | 6.5       |
| 160 (125)         | E 6.8L      | 6 cyl. | 6068HF285    | 1800  | 147             | 160 | 128 | 134           | 145 | 116 | 92                   | 8.1       |
| 190 (150)         | E 6.8L      | 6 cyl. | 6068HF285    | 1800  | 177             | 192 | 154 | 161           | 174 | 139 | 92                   | 9.8       |
| 230 (180)         | E 6.8L      | 6 cyl. | 6068HFG82    | 1800  | 212             | 232 | 185 | 193           | 210 | 168 | 93                   | 12.6      |
| 255 (200)         | Plus 6.8L   | 6 cyl. | 6068HFG85    | 1800  | 235             | 257 | 205 | 214           | 232 | 186 | 93                   | 14.1      |
| 275 (220)         | E 9.0L      | 6 cyl. | 6090HFG84    | 1800  | 258             | 278 | 222 | 235           | 251 | 201 | 93                   | 18.9      |
| 310 (250)         | E 9.0L      | 6 cyl. | 6090HF484    | 1800  | 287             | 314 | 251 | 258           | 280 | 224 | 93                   | 17.2      |
| 340 (275)         | E 9.0L      | 6 cyl. | 6090HF484    | 1800  | 315             | 344 | 275 | 287           | 312 | 249 | 93                   | 18.9      |
| 345 (275)         | Plus 9.0L   | 6 cyl. | 6090HFG85    | 1800  | 315             | 347 | 278 | 287           | 315 | 252 | 93                   | 16.1      |
| 380 (300)         | E 9.0L      | 6 cyl. | 6090HFG86    | 1800  | 345             | 379 | 303 | -             | -   | -   | 93                   | 19.3      |

# Engines for EPA Tier 3 and EU Stage III A applications

## Dual frequency 60 Hz/50 Hz

Engines for emergency standby applications.  
 These mechanical and electronic engines provide reliable, compact power and low installation costs.

| Node<br>kVA prime | Engine name | Type   | Engine model | Power unit model* | Speed | Standby ratings |     |     | Prime ratings |     |     | Generator efficiency | Fan power | Dual freq. | RoHS |
|-------------------|-------------|--------|--------------|-------------------|-------|-----------------|-----|-----|---------------|-----|-----|----------------------|-----------|------------|------|
|                   |             |        |              |                   | rpm   | kWm             | kVA | kWe | kWm           | kVA | kWe | %                    | kW        |            |      |
| 30                | M 2.9L      | 3 cyl. | 3029TFG89†   | 3029TFU89†        | 1800  | 35              | 37  | 30  | 32            | 34  | 27  | 90                   | 3.4       | ■          | ■    |
|                   |             |        |              |                   | 1500  | 31              | 33  | 27  | 28            | 30  | 24  | 90                   | 2.0       |            |      |
| 40                | M 2.9L      | 3 cyl. | 3029HFG89†   | 3029HFU89†        | 1800  | 46              | 49  | 39  | 42            | 45  | 36  | 90                   | 2.2       | ■          | ■    |
|                   |             |        |              |                   | 1500  | 43              | 46  | 37  | 39            | 42  | 33  | 90                   | 2.2       |            |      |
| 60                | M 4.5L      | 4 cyl. | 4045HFG81    | 4045HFU81         | 1800  | 65              | 69  | 56  | 59            | 63  | 50  | 90                   | 15.3      | ■          | ■    |
|                   |             |        |              |                   | 1500  | 61              | 65  | 52  | 56            | 59  | 47  | 90                   | 9.1       |            |      |
| 80                | E 4.5L      | 4 cyl. | 4045HFG82    | 4045HFU82         | 1800  | 86              | 92  | 74  | 78            | 83  | 67  | 90                   | 15.3      | ■          | ■    |
|                   |             |        |              |                   | 1500  | 83              | 89  | 71  | 76            | 80  | 64  | 90                   | 9.1       |            |      |
| 100               | E 4.5L      | 4 cyl. | 4045HFG82    | 4045HFU82         | 1800  | 106             | 116 | 93  | 96            | 105 | 84  | 92                   | 15.3      | ■          | ■    |
|                   |             |        |              |                   | 1500  | 103             | 113 | 90  | 94            | 102 | 81  | 92                   | 9.1       |            |      |
| 120               | E 4.5L      | 4 cyl. | 4045HFG82    | 4045HFU82         | 1800  | 126             | 138 | 110 | 115           | 125 | 100 | 92                   | 9.1       | ■          | ■    |
|                   |             |        |              |                   | 1500  | 123             | 134 | 108 | 112           | 122 | 97  | 92                   | 5.2       |            |      |
| 150               | E 6.8L      | 6 cyl. | 6068HFG82    | 6068HFU82         | 1800  | 156             | 170 | 136 | 142           | 154 | 123 | 92                   | 22.5      | ■          | ■    |
|                   |             |        |              |                   | 1500  | 153             | 167 | 134 | 139           | 151 | 121 | 92                   | 13.1      |            |      |
| 200               | E 6.8L      | 6 cyl. | 6068HFG82    | 6068HFU82         | 1800  | 212             | 234 | 187 | 193           | 212 | 170 | 93                   | 24.7      | ■          | ■    |
|                   |             |        |              |                   | 1500  | 202             | 223 | 178 | 184           | 202 | 162 | 93                   | 14.3      |            |      |
| 250               | E 9.0L      | 6 cyl. | 6090HFG84    | 6090HFU84         | 1800  | 258             | 285 | 228 | 235           | 258 | 206 | 93                   | 29.4      | ■          | ■    |
|                   |             |        |              |                   | 1500  | 253             | 279 | 224 | 230           | 253 | 202 | 93                   | 17.0      |            |      |
| 300               | E 9.0L      | 6 cyl. | 6090HFG84    | 6090HFU84         | 1800  | 315             | 348 | 278 | 287           | 315 | 252 | 93                   | 29.4      | ■          | ■    |
|                   |             |        |              |                   | 1500  | 304             | 336 | 269 | 277           | 304 | 243 | 93                   | 17.0      |            |      |

\*Power unit includes factory-mounted cooling package, air filter, and feet.  
 †50 Hz/60 Hz dual frequency is a customer-selectable option and meets EU Stage III A and EPA Tier 3 emissions regulations.

# Engines for non-emissions regulated applications

## Dual frequency 60 Hz/50 Hz

**Engines for regions not subject to emissions regulations.** Power nodes from 30 to 200 kVA use mechanical fuel systems, while 225 to 500 kVA nodes feature HPCR fuel systems and full authority electronic controls.

| Node<br>kVA prime | Engine name | Type   | Engine model | Power unit model <sup>*</sup> | Speed | Standby ratings |     |     | Prime ratings |     |     | Generator efficiency | Fan power | Dual freq. | RoHS |
|-------------------|-------------|--------|--------------|-------------------------------|-------|-----------------|-----|-----|---------------|-----|-----|----------------------|-----------|------------|------|
|                   |             |        |              |                               | rpm   | kWm             | kVA | kWe | kWm           | kVA | kWe | %                    | kW        |            |      |
| 30                | M 2.9L      | 3 cyl. | 3029DFG20    | 3029DFU20                     | 1800  | 35              | 38  | 30  | 32            | 34  | 27  | 90                   | 1.8       | ■          | ■    |
|                   |             |        |              |                               | 1500  | 31              | 33  | 27  | 28            | 30  | 24  | 90                   | 1.6       |            |      |
| 40                | M 2.9L      | 3 cyl. | 3029TFG20    | 3029TFU20                     | 1800  | 48              | 51  | 41  | 44            | 46  | 37  | 90                   | 2.4       | ■          | ■    |
|                   |             |        |              |                               | 1500  | 42              | 45  | 36  | 39            | 41  | 33  | 90                   | 2.1       |            |      |
| 60                | M 2.9L      | 3 cyl. | 3029HFG20    | 3029HFU20                     | 1800  | 66              | 70  | 56  | 61            | 65  | 52  | 90                   | 3.6       | ■          | ■    |
|                   |             |        |              |                               | 1500  | 55              | 58  | 47  | 51            | 54  | 43  | 90                   | 3.1       |            |      |
| 80                | M 4.5L      | 4 cyl. | 4045TFG20    | 4045TFU20                     | 1800  | 97              | 106 | 84  | 89            | 96  | 77  | 92                   | 4.7       | ■          | ■    |
|                   |             |        |              |                               | 1500  | 85              | 92  | 74  | 79            | 86  | 68  | 92                   | 4.1       |            |      |
| 100               | M 4.5L      | 4 cyl. | 4045HFG20    | 4045HFU20                     | 1800  | 115             | 125 | 100 | 105           | 114 | 91  | 92                   | 5.7       | ■          | ■    |
|                   |             |        |              |                               | 1500  | 103             | 113 | 90  | 96            | 105 | 85  | 92                   | 5.1       |            |      |
| 120               | M 4.5L      | 4 cyl. | 4045HFG20    | 4045HFU20                     | 1800  | 133             | 145 | 116 | 121           | 131 | 105 | 92                   | 6.8       | ■          | ■    |
|                   |             |        |              |                               | 1500  | 122             | 133 | 107 | 112           | 122 | 97  | 92                   | 6.1       |            |      |
| 150               | M 6.8L      | 6 cyl. | 6068HFG20    | 6068HFU20                     | 1800  | 164             | 179 | 143 | 150           | 163 | 130 | 92                   | 8.5       | ■          | ■    |
|                   |             |        |              |                               | 1500  | 157             | 172 | 137 | 144           | 157 | 125 | 92                   | 7.7       |            |      |
| 180               | M 6.8L      | 6 cyl. | 6068HFG20    | 6068HFU20                     | 1800  | 196             | 213 | 171 | 179           | 194 | 155 | 92                   | 10.5      | ■          | ■    |
|                   |             |        |              |                               | 1500  | 184             | 201 | 161 | 170           | 185 | 148 | 92                   | 9.2       |            |      |
| 200               | M 6.8L      | 6 cyl. | 6068HFG20    | 6068HFU20                     | 1800  | 210             | 232 | 186 | 191           | 210 | 168 | 93                   | 10.5      | ■          | ■    |
|                   |             |        |              |                               | 1500  | 202             | 223 | 179 | 184           | 202 | 162 | 93                   | 10.1      |            |      |
| 225               | E 6.8L      | 6 cyl. | 6068HFG25    | -                             | 1800  | 236             | 261 | 209 | 215           | 236 | 189 | 93                   | 11.8      | ■          | -    |
|                   |             |        |              |                               | 1500  | 225             | 249 | 199 | 205           | 225 | 180 | 93                   | 11.3      |            |      |
| 250               | E 6.8L      | 6 cyl. | 6068HFG55    | 6068HFU55                     | 1800  | 260             | 287 | 230 | 237           | 260 | 208 | 93                   | 13.0      | ■          | ■    |
|                   |             |        |              |                               | 1500  | 250             | 276 | 221 | 228           | 250 | 200 | 93                   | 12.5      |            |      |
| 300               | E 9.0L      | 6 cyl. | 6090HFG84    | 6090HFU84                     | 1800  | 315             | 348 | 278 | 287           | 315 | 252 | 93                   | 15.8      | ■          | -    |
|                   |             |        |              |                               | 1500  | 304             | 336 | 269 | 277           | 304 | 243 | 93                   | 15.2      |            |      |

<sup>\*</sup>Power unit includes factory-mounted cooling package, air filter, and feet.

# Definitions and conversions

**Prime power** is the nominal power an engine is capable of delivering with a variable load for an unlimited number of hours per year. This rating conforms to ISO 3046 and SAE J1995.

**Standby power** as defined in ISO 8528-1 is the maximum engine power available at varying load factors for up to 200 hours per year. This rating conforms to ISO 3046 and SAE J1995. The calculated generator-set rating range for standby applications is based on minimum engine power (nominal -5%) to provide 100% meet-or-exceed performance for assembled standby generator sets.

## Generator drive rating (kWe)

$[\text{Engine power} - \text{Fan power loss}] \times \text{Generator efficiency}$

*Note:*

*DFM, TFM, AFM, and SFM generator drive ratings do not have fan power loss.*

## Power factor (PF)

$\text{kWe} \ \& \ \text{kVA} = \text{Real power} / \text{Apparent power}$

PF constant = 0.80

## Formulas

$\text{Standby power} = \text{Prime power} \times 110\% \text{ overload capacity}$

$\text{kVA rating} = \text{kWe rating} / 0.80$

$\text{hp} = \text{kW} \times 1.34$

*Estimated electrical power is calculated from the typical generator efficiency and fan power percentages shown. Applications may vary.*





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