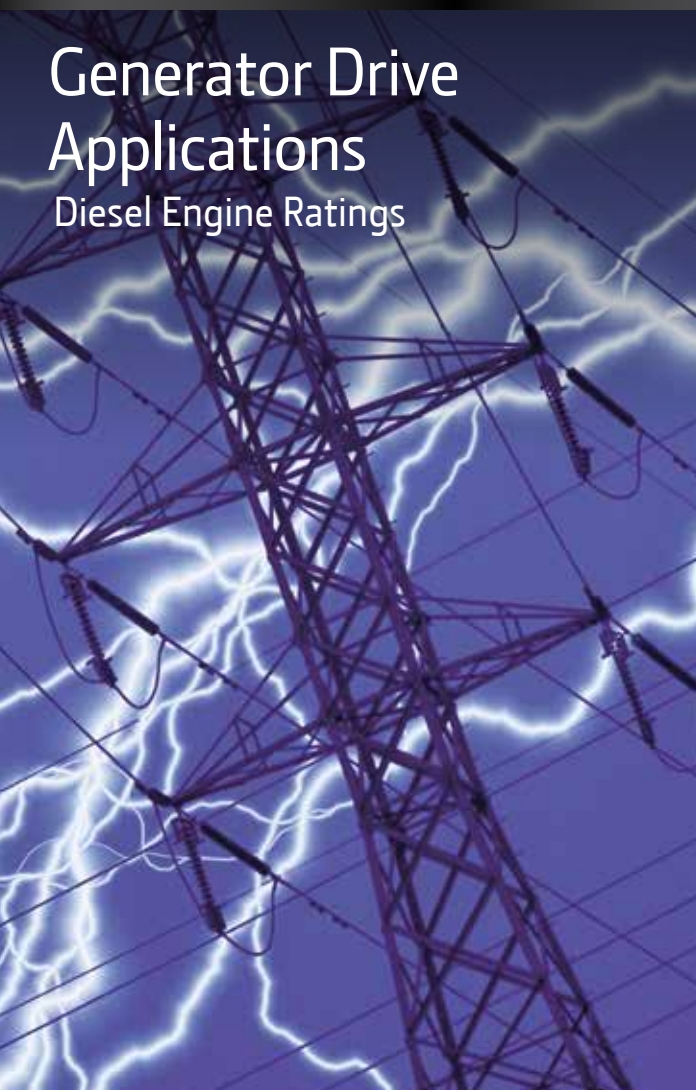




**JOHN DEERE**

# Generator Drive Applications

Diesel Engine Ratings

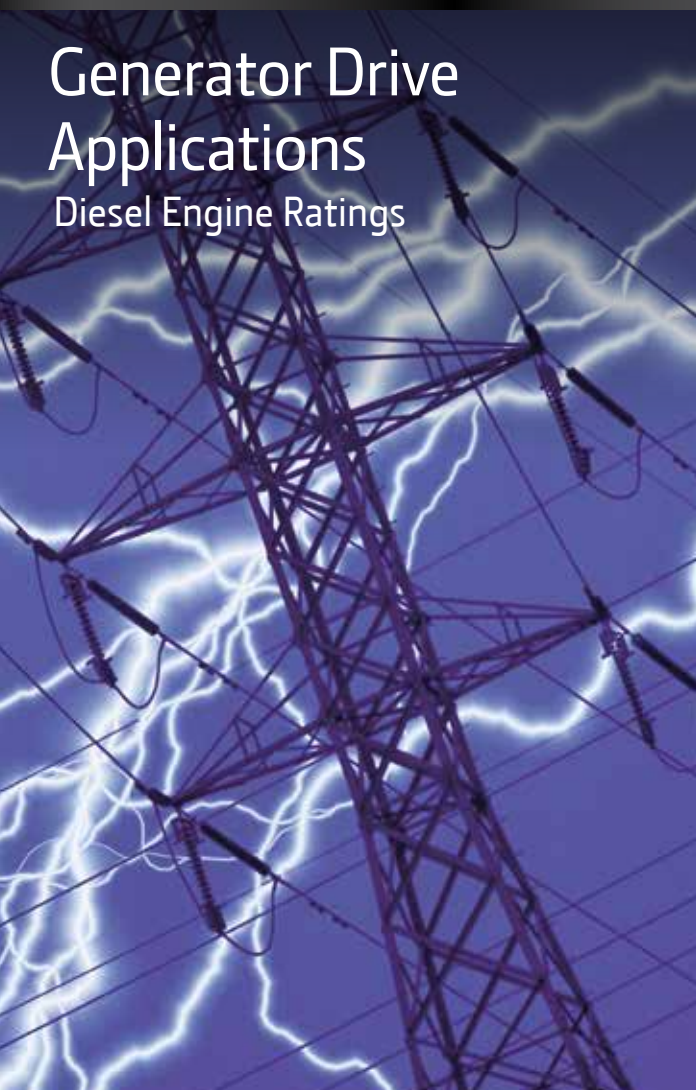




**JOHN DEERE**

# Generator Drive Applications

## Diesel Engine Ratings





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# Generator-set engine identification plate



**PE 6 068 H F 285**

Engine model number

## Model designation key

Below is a key for the engine models shown in this guide.

A model designated as 6068H is a 6-cylinder, 6.8-liter turbocharged and air-to-air aftercooled engine. A model designated as 4045T is a 4-cylinder, 4.5-liter turbocharged engine.

**6068H**

Aspiration  
Displacement in liters  
Number of cylinders

### Emissions certification

129, 150, 250, 258, 475, G55	Non emissions certified - 50 Hz
129, 150, 250, 275, 475, G55	Non emissions certified - 60 Hz
270, 275, 279, 475	Stage II
280, 285, 484, 485, G75*,	Tier 3
G82, G84, G85, G86, G89	
G81, G82, G84, G89	Stage III A
290, G92, G93, G94, G95	Interim Tier 4
G03, G04, G08, G09	Final Tier 4
258, U29, U55	Non-certified Generator Set Power Unit (GSPU)
U89, U70, U72, U74, U79	Stage II Generator Set Power Unit (GSPU)
U81, U82, U84	Stage III A Generator Set Power Unit (GSPU)

### Engine controls (starting with some Tier 2/Stage II engines)

0 or 1	Mechanical controls
2,3,4,5, or 6	Electronic controls

### Valves per cylinder (Tier 2, Tier 3, and Stage II engines)

2	2 valves
4	4 valves

### Engine type (Tier 3, Interim Tier 4, Final Tier 4, and Stage III A engines)

G	Generator-set (bare engine)
U	Generator-set power unit (GSPU)
M	Marine

### User type

F	OEM (John Deere Power Systems)
XX	Other letters are used to identify John Deere equipment manufacturing locations

### Aspiration

D	Naturally aspirated
T	Turbocharged
A	Turbocharged and air-to-coolant aftercooled
H	Turbocharged and air-to-air aftercooled
S	Turbocharged and air-to-sea water aftercooled

\*This PowerTech engine is capable of meeting Tier 2 emissions as required by emergency stationary regulations (>560 kW).

# Nonstop power wherever you need it

John Deere generator drive engines keep the power on through the most powerful storms and in the most remote locations on Earth. Our engines meet emissions regulations while delivering quick-starting, clean-running, and fuel-efficient performance. Plus, they are available with more power in a compact size for installation flexibility.

## Power at a moment's notice

John Deere-powered standby generator sets protect critical applications, ensure uninterrupted productivity, and offer peace of mind. The EPA allows emergency standby applications to use current Tier 3 products that do not require aftertreatment. The European Union (EU) does not regulate emergency standby applications.

## Power in remote locations

John Deere generator drive engines provide prime power for pumping stations, peak shaving, distributed power, mining, and other remote applications. Since January 1st, 2011, prime power applications were required to meet Interim Tier 4 emissions regulations in North America and Stage III A in Europe. Final Tier 4 emissions regulations for engines 130 kW (174 hp) and above began in January 2014, and will be fully implemented for engines 56 to 129 kW (75 to 174 hp) by 2015.

# Emissions information

The ultimate in performance, fuel economy, and emissions compliance is available with John Deere engines. To meet emissions regulations, John Deere worked closely with equipment manufacturers to identify engine technologies that best suited their needs.

John Deere offers non-certified engines as well as engines that comply with nonroad emissions regulations for the U.S. Environmental Protection Agency (EPA), the European Union (EU), and the California Air Resources Board (CARB).



Visit [www.JohnDeere.com/gendrive](http://www.JohnDeere.com/gendrive) to learn more about reliable John Deere engines for prime and standby power.



# EPA off-highway emissions regulations

kW	hp	2006	2007	2008	2009	2010	2011	2012	2013
0-7	0-10	7.5 0.80		7.5 0.40					
8-18	11-24	7.5 0.80		7.5 0.40					
19-36	25-49	7.5 0.60		7.5 0.30					4.7 0.03
37-55	50-74	7.5 0.40		4.7 0.30	Option 1*				4.7 0.03
				4.7 0.40	Option 2*			4.7 0.03	
56-74	75-99	7.5 0.40		4.7 0.40				3.4 0.19 0.02	
75-129	100-174	6.6 0.30	4.0 0.30					3.4 0.19 0.02	
130-224	175-299						2.0 0.19 0.02		
225-449	300-599	4.0 0.20					2.0 0.19 0.02		
450-559	600-749						2.0 0.19 0.02		
≥560	≥750	6.4 0.20					3.5 0.40 0.10		
560-900 Generator Sets	750-1,200 Generator Sets	6.4 0.20					3.5 0.40 0.10		

\*In the 50 to 74 horsepower category there are two options. Option 1 requires a reduced PM level (.30 vs .40) but allows Final Tier 4 to be delayed one year (2013)


**NOTE:** In emergency stationary applications, the EPA does not require any engine with add-on controls such as exhaust filter and SCR catalysts.


## Fuel sulfur regulations

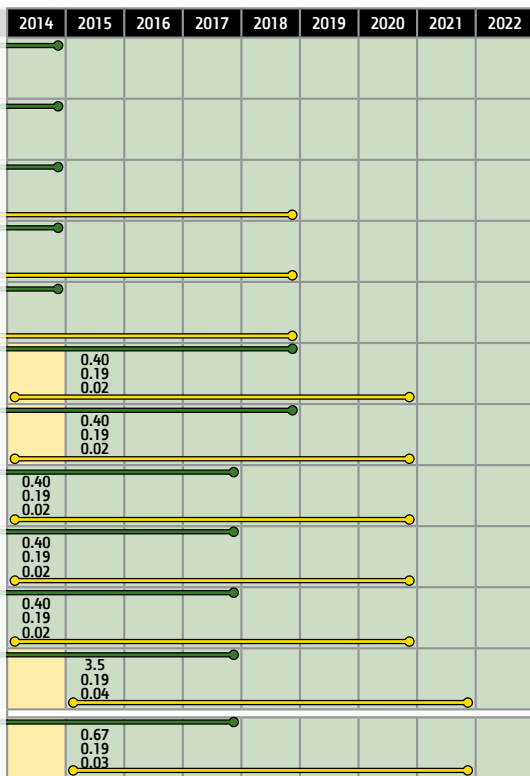
	2006	2007	2008	2009	2010	2011	2012	2013
EPA	5000 ppm		500 ppm				15 ppm	

### Legend

EPA	Tier 2	Tier 3	Interim Tier 4	Final Tier 4
-----	--------	--------	----------------	--------------

 General Availability of Tier 4 Equipment Flexibility Provision

 Delayed Availability of Tier 4 Equipment Flexibility Provision



EPA: Environmental Protection Agency

2014	2015	2016	2017	2018	2019	2020	2021	2022
15 ppm								

**Examples**

NOx	2.0
NMHC	0.19
PM	0.025

2.0, the maximum amount of nitrogen oxides (NOx) allowed in g/kWh.

0.19, the maximum amount of nonmethane hydrocarbons (NMHC) allowed in g/kWh.

0.025, the maximum amount of particulate matter (PM) allowed in g/kWh.

NMHC + NOx	7.5
PM	0.80

7.5, the maximum amount of NMHC + NOx allowed in g/kWh.  
0.80, the maximum amount of PM allowed in g/kWh.

# EU off-highway mobile emission regulations — constant speed engines

kW	hp	2007	2008	2009	2010	2011	2012	2013	2014
0-7	0-10	Not regulated in EU							
8-18	11-24	Not regulated in EU							
19-36	25-49	8.0 1.5 0.80				7.5 0.60			
37-56	50-74	7.0 1.3 0.40					4.7 0.40		
57-74	75-99	7.0 1.3 0.40					4.7 0.40		
75-129	100-174	6.0 1.0 0.30				4.0 0.30			
130-559	175-749	6.0 1.0 0.20				4.0 0.20			
≥560	≥750	Not regulated in EU							

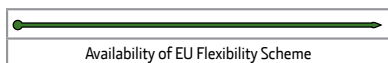
## Fuel sulfur regulations

	2007	2008	2009	2010	2011	2012	2013	2014
EU	2000 ppm	1000 ppm			10 ppm			

### Legend

EU	Stage II	Stage III A
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New emissions regulations take effect January 1 of the year indicated by color change unless otherwise noted.



2015	2016	2017	2018
Not regulated in EU			
Not regulated in EU			
Not regulated in EU			

2015	2016	2017	2018
10 ppm			

### Examples

NO <sub>x</sub>	2.0
NMHC	0.19
PM	0.025

2.0, the maximum amount of nitrogen oxides (NO<sub>x</sub>) allowed in g/kWh.

0.19, the maximum amount of nonmethane hydrocarbons (NMHC) allowed in g/kWh.

0.025, the maximum amount of particulate matter (PM) allowed in g/kWh.

NMHC + NO <sub>x</sub>	7.5
PM	0.80

7.5, the maximum amount of NMHC + NO<sub>x</sub> allowed in g/kWh.

0.80, the maximum amount of PM allowed in g/kWh.

# EPA Final Tier 4

## 60 Hz

Engine model	Rated speed	Engine power standby		Standby ratings	
	rpm	kW	hp	kVA	kWe <sup>(1)</sup>
<b>PowerTech EWX</b>					
3029HFG03	1800	36	48	39	31
3029HFG03	1800	48	64	52	41
3029HFG03	1800	55	74	59	48
4045TFG03	1800	55	74	58	46
<b>PowerTech PWL</b>					
4045HFG04	1800	68	91	71	57
4045HFG04	1800	80	107	84	67
4045HFG04	1800	99	133	104	83
<b>PowerTech PVS</b>					
6068HFG08	1800	150	201	159	127
6068HFG08	1800	180	241	190	152
<b>PowerTech PSS</b>					
4045HFG09	1800	105	141	111	89
4045HFG09	1800	124	166	131	105
6068HFG09	1800	216	290	231	185
6068HFG09	1800	240	322	257	205
6090HFG09	1800	237	318	254	203
6090HFG09	1800	273	366	293	234
6090HFG09	1800	297	398	318	254
6090HFG09	1800	326	437	349	279
6090HFG09	1800	345	463	369	295
6135HFG09	1800	356	477	385	308
6135HFG09	1800	411	551	444	355
6135HFG09	1800	473	634	511	409

<sup>(1)</sup> Electrical power is calculated from the typical generator efficiency and fan power percentages shown. Applications may vary.

Engine power prime		Prime ratings		Typical generator efficiency	Typical fan power
kW	hp	kVA	kWe <sup>(1)</sup>	%	kW
33	44	36	28	90	1.4
44	58	47	38	90	1.9
50	67	54	43	90	2.2
50	67	52	42	90	3.9
63	83	66	52	90	4.8
73	98	76	61	90	5.6
90	121	93	75	90	6.9
136	183	143	114	90	9.0
164	219	172	138	90	10.8
95	128	100	80	90	6.3
113	151	119	95	90	7.4
196	263	208	167	91	13.0
218	293	232	185	91	14.4
216	290	229	183	91	14.2
249	334	264	211	91	16.4
271	364	286	229	91	17.8
298	399	315	252	91	19.6
N/A	N/A	N/A	N/A	91	19.6
325	436	348	278	92	21.4
375	503	401	321	92	24.7
432	579	461	369	92	28.4

# EPA Interim Tier 4 60 Hz

Engine model	Rated speed	Engine power standby		Standby ratings	
	rpm	kW	hp	kVA	kWe <sup>(1)</sup>
<b>PowerTech M</b>					
4045TF290	1800	55	74	59-60	45-48
<b>PowerTech PWX</b>					
4045HFC92	1800	67	90	68-71	54-57
4045HFC92	1800	80	107	81-85	65-68
4045HFC92	1800	99	133	100-105	80-84
<b>PowerTech PVX</b>					
4045HFC93	1800	105	141	106-111	85-89
4045HFC93	1800	124	166	125-131	100-105
6068HFC94	1800	150	201	155-163	124-130
6068HFC94	1800	180	241	186-195	149-156
6090HFC94	1800	237	318	251-262	201-209
<b>PowerTech PSX</b>					
6068HFC95	1800	216	290	228-239	183-191
6090HFC95	1800	272	365	289-302	231-241
6090HFC95	1800	297	398	314-328	251-262
6090HFC95	1800	328	440	345-360	276-288
6135HFC95	1800	356	477	376-393	301-315
6135HFC95	1800	411	551	435-454	348-363
6135HFC95	1800	473	634	506-528	405-422

<sup>(1)</sup> Electrical power is calculated from the typical generator efficiency and fan power percentages shown. Applications may vary.

Engine power prime		Prime ratings		Typical generator efficiency	Typical fan power
kW	hp	kVA	kWe <sup>(1)</sup>	%	kW
50	67	51-54	41-43	88-92	3.3
61	82	61-65	49-52	88-92	5.4
73	97	74-78	59-62	88-92	6.4
90	121	91-95	73-76	88-92	7.9
95	127	96-101	77-81	88-92	8.4
113	152	114-119	91-95	88-92	9.9
136	182	141-148	113-118	88-92	9.0
164	220	169-178	135-142	88-92	10.8
215	288	228-238	182-190	90-94	14.2
196	264	208-218	166-174	90-94	13.0
246	330	262-274	210-219	90-94	16.4
267	358	286-298	228-239	90-94	17.8
295	396	313-327	251-262	90-94	19.7
320	429	342-357	274-286	90-94	21.4
370	496	395-413	316-330	90-94	24.7
426	571	460-480	368-384	91-95	28.4



# EPA Tier 3 60 Hz

Engine model	Rated speed	Engine power standby		Standby ratings	
	rpm	kW	hp	kVA	kWe <sup>(1)</sup>
<b>PowerTech M<sup>(6)</sup></b>					
3029TFG89 <sup>(2)(7)</sup>	1500	31	42	32–34	25–27
	1800	35	47	35–37	28–30
3029HFG89 <sup>(2)</sup>	1500	43	58	46–48	36–38
	1800	46	62	48–50	38–40
4045TF280	1800	56	75	60–63	48–50
4045TF280	1800	63	85	68–70	54–56
4045HF280	1800	74	99	79–83	63–66
<b>PowerTech E</b>					
4045TF285	1800	74	99	76–79	61–63
4045HF285	1800	94	126	98–103	78–82
4045HF285	1800	99	133	104–108	83–86
4045HF285	1800	118	158	123–129	98–103
4045HF285	1800	147	197	155–161	124–129
6068HF285	1800	147	197	153–160	122–128
6068HF285	1800	177	237	184–193	147–154
6068HFG82 <sup>(3)</sup>	1500	202	271	213–223	170–179
	1800	212	284	218–228	174–183
6090HFG84 <sup>(3)</sup>	1500	253	339	266–278	213–223
	1800	258	346	267–280	213–224
6090HFG84 <sup>(3)</sup>	1500	304	408	323–338	258–271
	1800	315	422	331–347	265–277
6090HF484	1800	229	307	242–253	194–202
6090HF484	1800	258	346	273–285	219–228
6090HF484	1800	287	385	304–317	243–254
6090HF484	1800	315	422	333–348	266–278
6090HFG86 <sup>(4)</sup>	1800	345	463	373–389	298–311
6135HFG84 <sup>(4)</sup>	1800	401	538	433–452	346–362
6135HFG84 <sup>(4)</sup>	1800	460	617	497–519	397–415
6135HFG75 <sup>(4)(5)</sup>	1800	563	755	615–642	492–513
<b>PowerTech Plus<sup>(6)</sup></b>					
4045HFG85	1800	147	197	155–161	124–129
6068HFG85	1800	212	284	226–236	181–189
6068HFG85	1800	235	315	243–254	194–203
6090HF485	1800	315	422	336–351	269–281
6135HF485	1800	345	463	367–383	293–306
6135HF485	1800	401	538	426–445	341–356
6135HF485	1800	460	617	500–511	400–409

<sup>(1)</sup> Electrical power is calculated from the typical generator efficiency and fan power percentages shown. Applications may vary.

<sup>(2)</sup> 60 Hz/50 Hz dual frequency is available on these engines and meet EPA Interim Tier 4 and EU Stage III A emissions regulations.

<sup>(3)</sup> 60 Hz/50 Hz dual frequency is available on these engines and meet EPA Tier 3 and EU Stage III A emissions regulations.

<sup>(4)</sup> Available for emergency stationary applications only.

<sup>(5)</sup> This PowerTech engine is capable of meeting Tier 2 emissions as required by emergency stationary regulations (>560 kW).

Engine power prime		Prime ratings		Typical generator efficiency	Typical fan power
kW	hp	kVA	kWe <sup>(1)</sup>	%	kW
28	38	29–31	23–25	88–92	1.3
31	42	32–34	25–27	88–92	2.2
39	52	41–43	33–35	88–92	1.5
42	56	43–45	34–36	88–92	2.6
51	68	54–56	43–45	88–92	1.9
57	76	60–64	48–51	88–92	1.9
67	90	71–75	57–60	88–92	2.2
67	90	68–71	54–57	88–92	5.2
86	115	89–93	71–74	88–92	5.2
90	121	94–98	75–78	88–92	5.2
107	144	111–116	89–93	88–92	6.5
134	179	140–146	112–117	88–92	6.5
134	180	139–145	111–116	88–92	8.1
161	216	166–174	133–139	88–92	9.8
184	246	193–202	154–162	88–92	7.3
193	259	197–206	157–165	88–92	12.6
230	309	240–252	192–201	90–94	15.2
235	315	241–252	192–202	90–94	18.9
277	371	292–306	234–245	90–94	15.2
287	384	299–313	239–251	90–94	18.9
208	279	218–228	175–183	90–94	13.7
235	315	247–258	197–206	90–94	15.5
258	346	276–288	221–231	90–94	17.2
284	380	303–316	242–253	90–94	18.9
N/A	N/A	N/A	N/A	90–94	13.8
N/A	N/A	N/A	N/A	90–94	16.0
N/A	N/A	N/A	N/A	90–94	18.4
N/A	N/A	N/A	N/A	91–95	22.5
134	179	140–146	112–117	88–92	6.5
193	258	205–214	164–171	88–92	6.5
214	286	220–230	176–184	88–92	14.1
287	385	305–318	244–255	90–94	16.1
311	416	330–345	264–276	90–94	19.9
365	489	388–405	310–324	90–94	22.0
419	561	455–465	364–372	92–94	25.3

<sup>(6)</sup> Jet fuel ratings available, contact your John Deere engine distributor for a complete listing.

<sup>(7)</sup> Generator set power unit (GSPU) available. A GSPU is a John Deere factory-built gen-set power unit, based on a bare engine with mounting pads, cooling package, and air filter.

# Non-emissions certified 60 Hz

Engine model	Rated speed	Engine power standby		Standby ratings	
	rpm	kW	hp	kVA	kWe <sup>(1)</sup>
3029DF129 <sup>(8)</sup>	1800	35	47	35 – 37	28 – 30
3029TF129	1800	48	64	50 – 52	40 – 42
4045DF270	1800	50	67	52 – 55	42 – 44
4045DF150	1800	53	71	55 – 58	44 – 46
4045TF150	1800	74	99	78 – 81	62 – 65
4045TF270	1800	74	99	77 – 81	62 – 65
4045TF250	1800	84	113	88 – 92	70 – 74
4045TF275	1800	84	113	88 – 92	70 – 73
4045TF250	1800	100	134	105 – 109	84 – 87
4045HF275	1800	108	145	113 – 118	90 – 94
4045HF275	1800	117	157	121 – 128	97 – 102
4045HF150	1800	123	165	129 – 134	103 – 107
4045HF475	1800	143	192	148 – 156	119 – 124
6068TF150	1800	112	150	116 – 122	93 – 98
6068TF275	1800	123	165	129 – 134	103 – 108
6068TF250	1800	142	190	148 – 155	118 – 124
6068HF250	1800	148	198	154 – 161	123 – 129
6068HF275	1800	164	220	171 – 179	137 – 143
6068HF275	1800	187	250	195 – 204	156 – 163
6068HF150	1800	187	251	195 – 204	156 – 163
6068HF275	1800	210	282	219 – 229	176 – 184
6068HF150	1800	210	282	220 – 230	176 – 184
6068HF475	1800	210	282	223 – 233	178 – 186
6068HF475 <sup>(8)</sup>	1800	234	314	245 – 256	196 – 205
6068HFG55 <sup>(8)(9)</sup>	1500	250	335	264 – 276	211 – 221
6068HFG55 <sup>(8)(9)</sup>	1800	260	349	266 – 278	213 – 222
6135HF475	1800	330	442	353 – 368	282 – 295
6135HF475	1800	360	483	385 – 402	308 – 322
6135HF475	1800	420	563	449 – 469	359 – 375
6135HF475	1800	460	617	492 – 513	393 – 411

<sup>(1)</sup> Electrical power is calculated from the typical generator efficiency and fan power percentages shown. Applications may vary.

<sup>(8)</sup> A GSPU is available at this power node.

<sup>(9)</sup> 50 Hz/60 Hz dual frequency is a standard feature.

Engine power prime		Prime ratings		Typical generator efficiency	Typical fan power	Emissions Level
kW	hp	kVA	kWe <sup>(1)</sup>	%	kW	Tier
31	42	31–33	25–26	88–92	3.0	Non-certified
44	59	46–48	37–38	88–92	2.4	Non-certified
46	62	48–50	38–40	88–92	2.5	2
48	64	50–52	40–42	88–92	2.6	1
67	90	70–73	56–58	88–92	3.7	1
67	90	70–73	56–58	88–92	3.7	2
76	102	79–82	63–66	88–92	4.1	1
76	102	79–83	64–66	88–92	4.2	2
90	121	94–98	75–78	88–92	5.0	1
98	131	102–107	82–85	88–92	5.4	2
106	142	109–115	87–92	88–92	5.9	2
111	149	115–120	92–96	88–92	6.0	1
130	174	134–141	107–112	88–92	7.2	2
101	135	105–110	84–88	88–92	5.6	1
112	150	116–122	93–97	88–92	6.2	2
128	172	132–139	106–111	88–92	7.1	1
133	178	137–144	110–115	88–92	7.5	1
149	200	155–162	124–130	88–92	8.2	2
170	228	177–185	141–148	88–92	9.4	2
168	225	174–182	139–146	88–92	9.3	1
191	256	198–207	159–166	88–92	10.5	2
189	253	196–205	157–164	88–92	10.4	1
191	256	201–210	161–168	89–93	10.5	Non-certified
213	286	221–231	177–185	88–92	11.7	2
227	304	239–250	191–200	88–92	10.0	Non-certified
237	318	240–251	192–201	88–92	18.5	Non-certified
300	402	319–333	255–267	90–94	16.4	Stage II
327	439	348–363	278–291	90–94	17.9	Stage II
382	512	406–424	325–339	90–94	20.9	Stage II
418	561	444–464	355–371	90–94	23.0	Stage II

# EU Stage III A/EPA Tier 3 50 Hz/60 Hz <sup>[10]</sup>

Engine model	Rated speed	Engine power standby		Standby ratings	
	rpm	kW	hp	kVA	kWe <sup>[1]</sup>
<b>PowerTech M</b>					
3029TFG89 <sup>[3][6]</sup>	1500	31	42	32–34	25–27
	1800	35	47	35–37	28–30
3029HFG89 <sup>[2]</sup>	1500	43	58	46–48	36–38
	1800	46	62	48–50	38–40
4045HFG81	1500	61	82	57–60	46–48
	1800	65	87	54–57	43–45
<b>PowerTech E</b>					
4045HFG82	1500	83	111	89–93	71–74
	1800	86	115	90–95	72–76
4045HFG82	1500	103	138	108–114	87–91
	1800	106	142	108–114	87–91
4045HFG82	1500	123	165	128–134	102–107
	1800	126	169	126–132	101–106
6068HFG82	1500	153	205	159–167	127–133
	1800	156	209	156–164	125–131
6068HFG82	1500	202	271	213–223	170–179
	1800	212	284	218–228	174–183
6090HFG84	1500	253	339	266–278	213–223
	1800	258	346	267–280	213–224
6090HFG84	1500	304	408	323–338	258–271
	1800	315	422	331–347	265–277

<sup>[1]</sup> Electrical power is calculated from the typical generator efficiency and fan power percentages shown. Applications may vary.

<sup>[2]</sup> 60 Hz/50 Hz dual frequency is available on these engines and meet EPA Interim Tier 4 and EU Stage III A emissions regulations.

<sup>[3]</sup> 60 Hz/50 Hz dual frequency is available on these engines and meet EPA Tier 3 and EU Stage III A emissions regulations.

<sup>[6]</sup> Jet fuel ratings available, contact your John Deere engine distributor for a complete listing.

<sup>[7]</sup> Generator set power unit (GSPU) available. A GSPU is a John Deere factory-built gen-set power unit, based on a bare engine with mounting pads, cooling package, and air filter.

<sup>[10]</sup> 50 Hz/60 Hz dual frequency is a standard feature on the EU Stage III A range.

Engine power prime		Prime ratings		Typical generator efficiency	Typical fan power	GSPU <sup>(7)</sup> model
kW	hp	kVA	kWe <sup>(1)</sup>	%	kW	
28	38	29–31	23–25	88–92	1.3	3029TFU89
31	42	32–34	25–27	88–92	2.2	
39	52	41–43	33–35	88–92	1.5	3029HFU89
42	56	43–45	34–36	88–92	2.6	
56	75	51–54	41–43	88–92	9.0	4045HFU81
59	79	48–50	38–40	88–92	15.5	
76	101	81–84	64–67	88–92	2.0	4045HFU82
78	105	82–86	65–69	88–92	3.4	
94	126	98–103	79–82	88–92	4.0	4045HFU82
96	129	98–103	78–82	88–92	6.7	
112	150	116–121	92–97	88–92	6.0	4045HFU82
115	154	113–119	91–95	88–92	10.3	
139	187	144–151	115–121	88–92	7.3	6068HFU82
142	190	140–148	112–118	88–92	12.6	
184	246	193–202	154–162	88–92	7.3	6068HFU82
193	259	197–206	157–165	88–92	12.6	
230	309	240–252	192–201	90–94	15.2	6090HFU84
235	315	241–252	192–202	90–94	18.9	
277	371	292–306	234–245	90–94	15.2	6090HFU84
287	384	299–313	239–251	90–94	18.9	

# EU Stage II 50 Hz

Engine model	Rated speed	Engine power standby		Standby ratings	
	rpm	kW	hp	kVA	kWe <sup>(1)</sup>
4045TF270	1500	61	81	64–68	51–54
4045HF275	1500	83	111	86–90	69–72
4045HF279	1500	103	138	106–111	85–89
4045HF475	1500	120	161	125–131	100–104
6068HF275	1500	123	165	132–138	105–110
6068HF279	1500	153	205	159–165	127–132
6068HF475	1500	183	245	196–205	157–164
6068HF475	1500	207	278	219–229	175–183
6090HF475	1500	253	339	270–279	216–224
6090HF475	1500	304	408	325–336	260–269
6135HF475	1500	355	476	379–392	304–314
6135HF475	1500	405	543	433–447	346–358
6135HF475	1500	456	612	487–504	390–403

<sup>(1)</sup> Electrical power is calculated from the typical generator efficiency and fan power percentages shown. Applications may vary.

<sup>(11)</sup> Generator set power unit (GSPU). A GSPU is a John Deere factory-built gen-set power unit, based on a bare engine with mounting pads, cooling package, and air filter.

Engine power prime		Prime ratings		Typical generator efficiency	Typical fan power	GSPU <sup>(1)</sup> model
kW	hp	kVA	kWe <sup>(1)</sup>	%	kW	
55	74	58–61	47–49	88–92	2.0	4045TFU70
75	101	77–81	62–65	88–92	4.8	4045HFU72
94	126	94–99	75–79	88–92	6.2	4045HFU79
109	146	112–118	90–94	88–92	6.0	N/A
111	149	118–124	95–99	89–93	4.5	6068HFU72
139	186	143–150	114–120	88–92	9.2	6068HFU79
166	223	177–185	142–148	89–93	6.5	6068HFU74
188	252	198–206	158–165	89–93	10.4	6068HFU74
230	308	243–251	195–201	90–93	12.7	N/A
274	367	292–302	234–242	90–93	15.2	N/A
323	433	345–357	276–285	90–93	17.8	N/A
369	494	394–407	315–326	90–93	20.3	N/A
415	556	443–458	355–367	90–93	22.8	N/A



# Non-emissions certified 50 Hz

Engine model	Rated speed	Engine power standby		Standby ratings	
	rpm	kW	hp	kVA	kWe <sup>(1)</sup>
3029DF129	1500	31	41	32–34	26–27
3029TF129	1500	42	56	44–46	35–37
4045DF158 <sup>(12)</sup>	1500	44	59	46–49	37–39
4045TF158 <sup>(12)</sup>	1500	70	94	73–76	58–61
4045TF250	1500	70	94	74–78	59–62
4045TF258 <sup>(12)</sup>	1500	83	111	88–92	70–74
4045HF158 <sup>(12)</sup>	1500	102	137	108–113	86–90
6068TF150	1500	94	126	100–104	80–83
6068TF250	1500	104	139	110–116	88–93
6068TF158 <sup>(12)</sup>	1500	105	141	111–116	89–93
6068TF258 <sup>(12)</sup>	1500	121	162	129–135	103–108
6068HF250	1500	123	165	130–136	104–109
6068HF158 <sup>(12)</sup>	1500	155	208	165–172	132–138
6068HF258 <sup>(12)</sup>	1500	183	245	194–202	155–162
6068HF475	1500	207	278	216–226	173–181
6068HFG55 <sup>(9)</sup>	1500	250	335	264–276	211–221
6068HFG55 <sup>(9)</sup>	1800	260	349	266–278	213–222

<sup>(1)</sup> Electrical power is calculated from the typical generator efficiency and fan power percentages shown. Applications may vary.

<sup>(9)</sup> 50 Hz/60 Hz dual frequency is a standard feature.

<sup>(11)</sup> Generator set power unit (GSPU). A GSPU is a John Deere factory-built gen-set power unit, based on a bare engine with mounting pads, cooling package, and air filter.

<sup>(12)</sup> GSPU only. Not available as bare engine.

All ratings are subject to change.

Engine power prime		Prime ratings		Typical generator efficiency	Typical fan power	GSPU <sup>(1)</sup> model
kW	hp	kVA	kWe <sup>(1)</sup>	%	kW	
27	36	28–29	22–23	88–92	2.0	3029DFU29 <sup>1</sup>
38	51	40–41	32–33	88–92	2.0	3029TFU29
40	54	41–44	33–35	88–92	2.0	4045DF158 <sup>1</sup>
63	84	65–68	52–54	88–92	3.5	4045TF158 <sup>1</sup>
63	84	66–70	53–56	88–92	2.5	N/A
75	101	79–83	63–66	88–92	4.8	4045TF258 <sup>1</sup>
91	122	96–100	77–80	88–92	4.0	4045HF158 <sup>1</sup>
85	114	90–94	72–75	88–92	3.5	N/A
94	126	100–104	80–83	88–92	3.5	N/A
95	127	100–105	80–84	88–92	3.5	6068TF158 <sup>1</sup>
109	146	115–121	92–97	88–92	4.0	6068TF258 <sup>1</sup>
111	149	117–123	94–98	88–92	4.5	N/A
140	188	148–155	118–124	88–92	5.5	6068HF158 <sup>1</sup>
166	223	175–183	140–147	88–92	6.5	6068HF258 <sup>1</sup>
188	252	195–204	156–163	88–92	10.4	N/A
227	304	239–250	191–200	88–92	10.0	6068HFU55
237	318	240–251	192–201	88–92	18.5	Non-certified

# PowerTech marine generator drive ratings

- Quiet, smooth operation
- Preferred provider of generator drive engines worldwide
- Available in 1500 rpm for 50 Hz and 1800 rpm for 60 Hz configurations

Engine model	Emissions rating	Rated speed	Engine prime power		Engine 10% overload power	
		rpm	kW	hp	kW	hp
<b>1500 rpm</b>						
4045DFM50	¥	1500	40	54	44	59
4045DFM70	¥	1500	40	54	44	59
4045TFM50	¥	1500	57	76	63	84
4045TFM75	¥	1500	55	74	61	82
4045TFM85	¥	1500	61	82	67	90
4045AFM85	¥	1500	89	119	98	131
6068TFM50	¥	1500	89	119	98	131
6068AFM75	1	1500	139	186	153	205
6068TFM76	¥	1500	89	119	98	131
6068AFM85	1	1500	139	186	153	205
6068SFM85	1	1500	168	226	185	248
6090AFM75	1	1500	195	261	214	287
6090SFM75	1	1500	222	298	244	328
6090AFM85	1	1500	195	261	214	287
6090SFM85	1	1500	222	298	244	328
6135AFM85	1	1500	278	373	306	410
6135SFM85	1	1500	334	448	367	493
<b>1800 rpm</b>						
4045DFM50	¥	1800	48	64	53	71
4045DFM70	¥	1800	46	62	50	67
4045TFM50	¥	1800	71	95	78	105
4045TFM75	¥	1800	73	98	80	107
4045TFM85	¥, 3	1800	74	99	81	109
4045AFM85	¥, 3	1800	110	148	121	162
6068TFM76	¥	1800	110	148	121	162
6068TFM50	¥	1800	115	154	125	168
6068AFM75	1	1800	166	223	183	245
6068AFM85	1, 3	1800	166	223	183	245
6068SFM85	1, 3	1800	195	262	215	288
6090AFM75	1	1800	222	297	244	327
6090SFM75	1	1800	278	373	306	410
6090AFM85	1, 3	1800	222	297	244	327
6090SFM85	1, 3	1800	278	373	306	410
6135AFM85	1, 3	1800	334	448	367	492
6135SFM85	1, 3	1800	416	558	458	614

#### Emissions rating:

¥. MARPOL Annex VI exempt

1. MARPOL Annex VI compliant

2. EPA Marine Tier 2

3. EPA Marine Tier 3

4. NRMM (97/68/EC) as amended



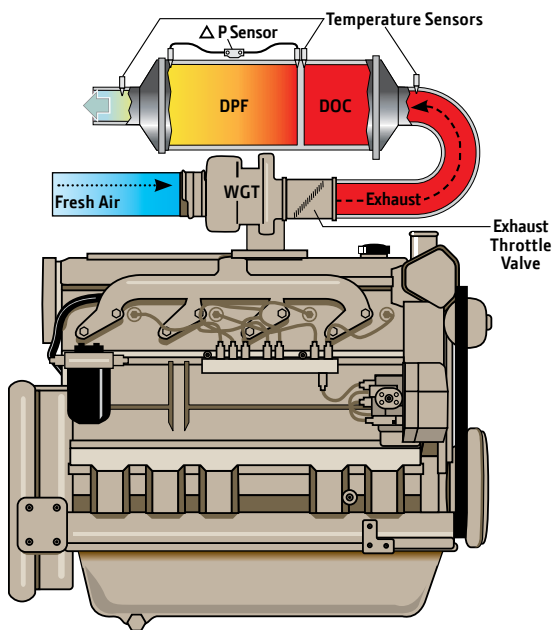
Typical prime ratings		Typical 10% overload ratings		Typical generator efficiency
kVA	kWe	kVA	kWe	%
44-46	35-37	48-51	39-40	88-92
44-46	35-37	48-51	39-41	88-92
62-65	50-52	68-71	55-57	88-92
60-64	48-51	66-70	53-56	88-92
68-70	54-56	75-77	59-62	88-92
98-103	78-82	108-113	86-90	88-92
98-102	78-82	108-113	86-90	88-92
153-160	122-128	169-176	135-141	88-92
98-102	78-82	108-113	86-90	88-92
153-160	122-128	169-176	135-141	88-92
185-194	148-155	204-213	163-170	88-92
214-224	171-179	235-246	188-197	88-92
244-255	195-205	268-281	215-224	88-92
214-224	171-179	235-246	188-197	88-92
244-255	195-205	268-281	215-224	88-92
305-320	244-256	336-353	269-282	88-92
368-384	294-307	405-422	323-338	88-92
52-55	42-44	58-61	47-79	88-92
50-53	40-42	55-58	44-46	88-92
78-81	62-65	86-89	68-71	88-92
80-84	64-67	88-92	70-74	88-92
81-85	65-68	89-94	71-75	88-92
121-126	97-101	133-139	106-111	88-92
121-126	97-101	133-138	106-111	88-92
134-132	99-106	136-145	108-116	88-92
183-191	146-153	201-210	161-168	88-92
183-191	146-153	201-210	161-168	88-92
215-225	172-180	236-248	189-198	88-92
244-255	195-204	269-280	215-224	88-92
305-320	244-256	336-353	269-282	88-92
244-255	195-204	269-280	215-224	88-92
305-320	244-256	336-353	269-282	88-92
366-383	293-306	402-423	322-338	88-92
458-479	366-383	504-527	402-421	88-92

All ratings are subject to change.

# PowerTech EWX

## 2.9L and 4.5L engines

EPA Final Tier 4



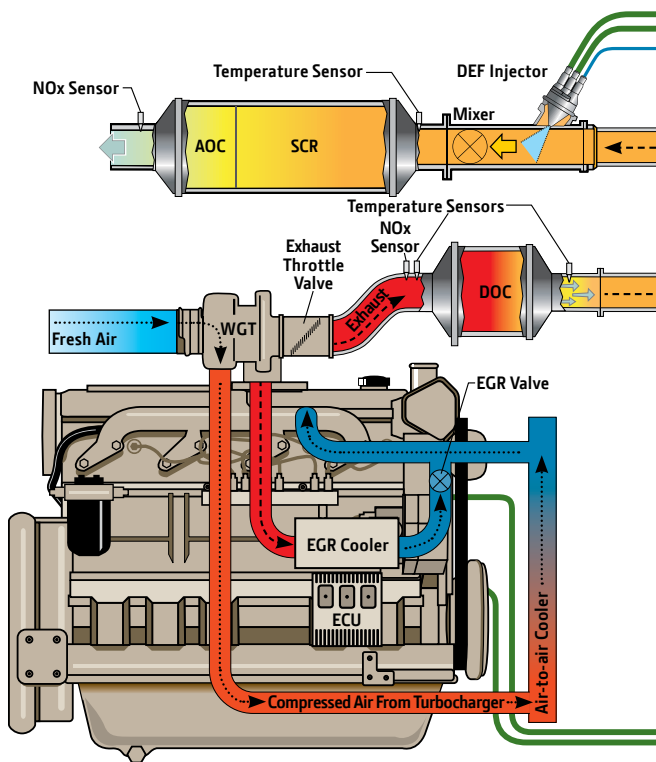
PowerTech EWX 4.5L engine configuration shown.

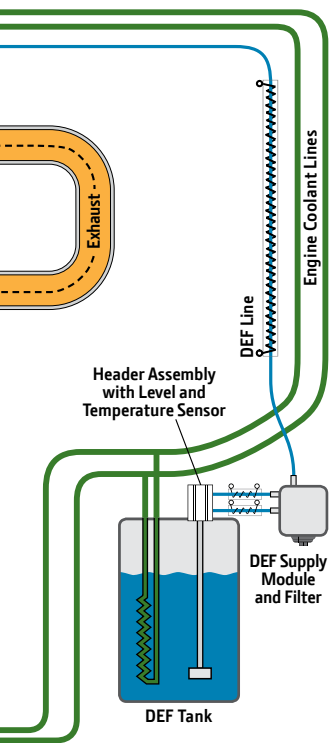
For more information and to see a full list of PowerTech EWX generator-set engine options, please visit [JohnDeere.com/gendriveEWX](http://JohnDeere.com/gendriveEWX).

- Wastegated turbocharger
- Exhaust filter
- High-pressure common-rail (HPCR) and engine control unit (ECU)
- 2-valve cylinder head
- Air-to-air aftercooled (2.9L)
- Compact size
- John Deere electronic engine controls
- Additional features
  - Gear-driven auxiliary drives
  - 500-hour oil change
  - Replaceable wet-type cylinder liners
  - Oil-cooled pistons with hardened ring groove insert
  - Forged-steel connecting rods
  - Engine-mounted full flow oil cooler

# PowerTech PWL 4.5L engines

EPA Final Tier 4







- Wastegated turbocharger
- Cooled exhaust gas recirculation (EGR)
- Diesel oxidation catalyst (DOC)
- Selective catalytic reduction (SCR)
- High-pressure common-rail (HPCR) and engine control unit (ECU)
- 4-valve cylinder head
- Air-to-air aftercooled
- Compact size
- John Deere electronic engine controls

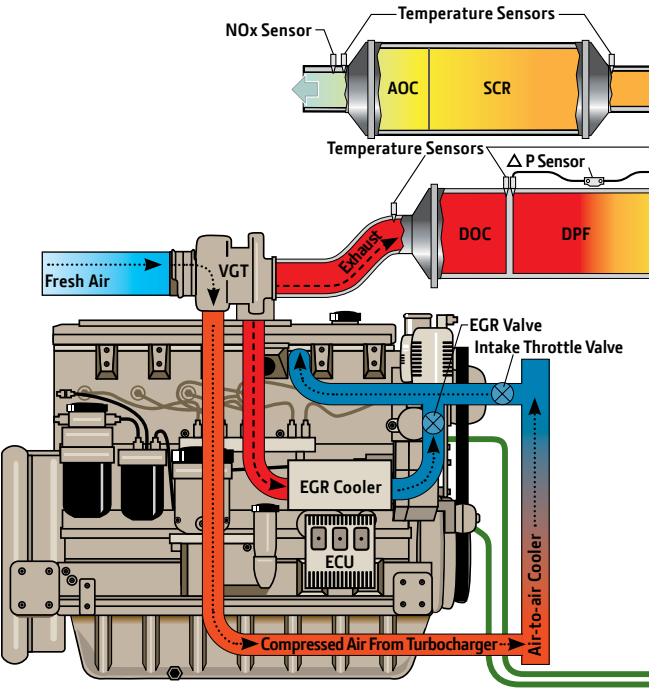
For more information and to see a full list of PowerTech PWL generator-set engine options, please visit [JohnDeere.com/gendrivePWL](http://JohnDeere.com/gendrivePWL).

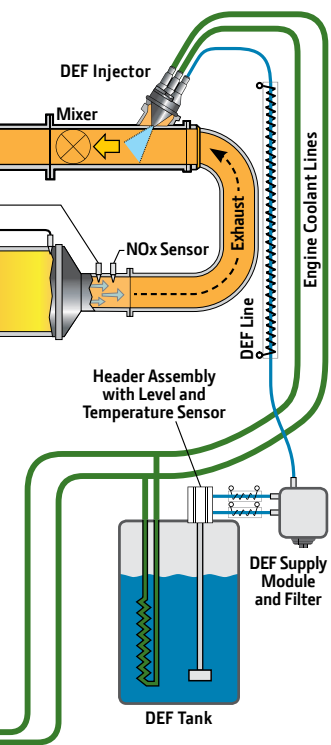
## – Additional features

- Gear-driven auxiliary drives
- 500-hour oil change
- Replaceable wet-type cylinder liners
- Oil-cooled pistons with hardened ring groove insert
- Optional variable-speed fan drive improves fuel economy and reduces noise levels
- Low-pressure fuel system with electrical transfer pump and “auto-prime” feature
- R.H. and L.H. engine-mounted final fuel filters

# PowerTech PVS 6.8L engines

EPA Final Tier 4





- Variable geometry turbocharger (VGT)
- Cooled exhaust gas recirculation (EGR)
- Exhaust filters
- Selective catalytic reduction (SCR)
- High-pressure common-rail (HPCR) and engine control unit (ECU)
- 4-valve cylinder head
- Air-to-air aftercooled
- Compact size
- John Deere electronic engine controls

For more information and to see a full list of PowerTech PVS generator-set engine options, please visit [JohnDeere.com/gendrivePVS](http://JohnDeere.com/gendrivePVS).

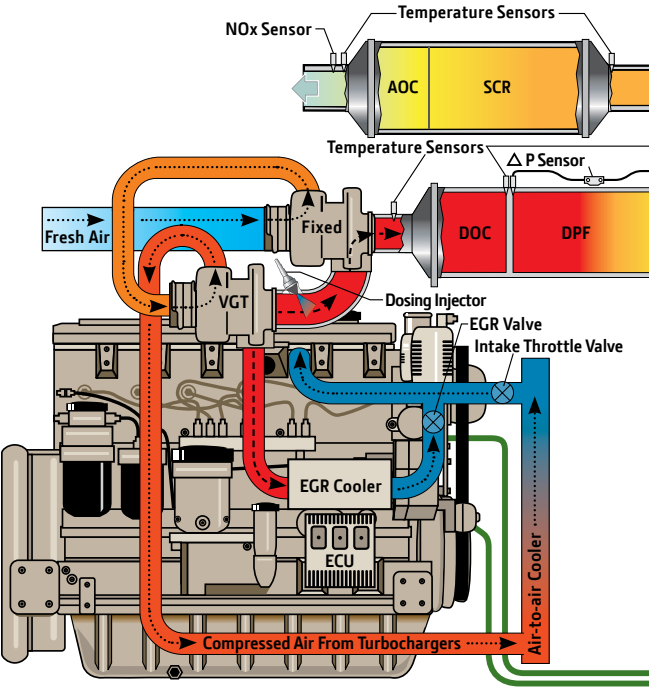
## – Additional features

- Glow plugs
- Gear-driven auxiliary drives
- 500-hour oil change
- Replaceable wet-type cylinder liners
- Oil-cooled pistons with hardened ring groove insert
- Optional variable-speed fan drive improves fuel economy and reduces noise levels
- Low-pressure fuel system with electrical transfer pump and “auto-prime” feature

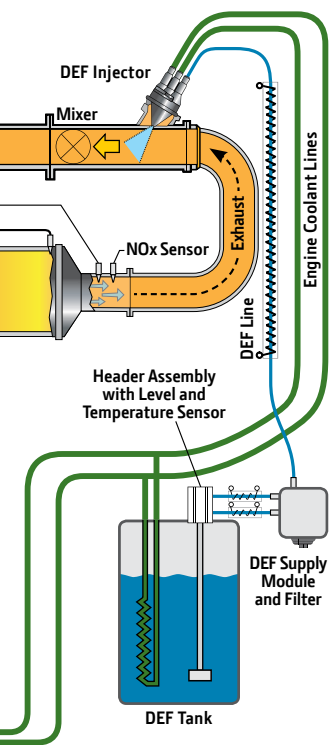
# PowerTech PSS

## 4.5L, 6.8L, 9.0L, and 13.5L engines

EPA Final Tier 4



PowerTech PSS 9.0L and 13.5L engine configuration shown.





- Series turbochargers
- Cooled exhaust gas recirculation (EGR)
- Exhaust filters
- Selective catalytic reduction (SCR)
- High-pressure common-rail (HPCR) and engine control unit (ECU)  
(4.5L, 6.8L, and 9.0L)
- Electronic unit injector (EUI) and engine control unit (ECU) (13.5L)
- 4-valve cylinder head
- Air-to-air aftercooled
- Compact size
- John Deere electronic engine controls

For more information and to see a full list of PowerTech PSS generator-set engine options, please visit [JohnDeere.com/gendrivePSS](http://JohnDeere.com/gendrivePSS).

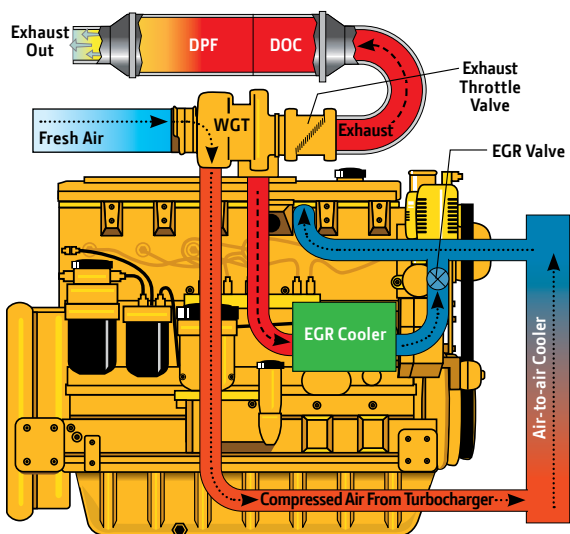
## – Additional features\*

- Glow plugs (4.5L and 6.8L)
- Gear-driven auxiliary drives
- Gear-driven water pump (9.0L and 13.5L)
- 500-hour oil change
- Replaceable wet-type cylinder liners
- Directed top-liner cooling (6.8L, 9.0L, and 13.5L)
- Single-piece low-friction steel piston with integrated oil-cooled gallery (6.8L, 9.0L, and 13.5L)
- Optional variable-speed fan drive improves fuel economy and reduces noise levels
- Low-pressure fuel system with electrical transfer pump and “auto-prime” feature

\*Available on all PowerTech PSS engines unless noted

# PowerTech PWX 4.5L engines

EPA Interim Tier 4

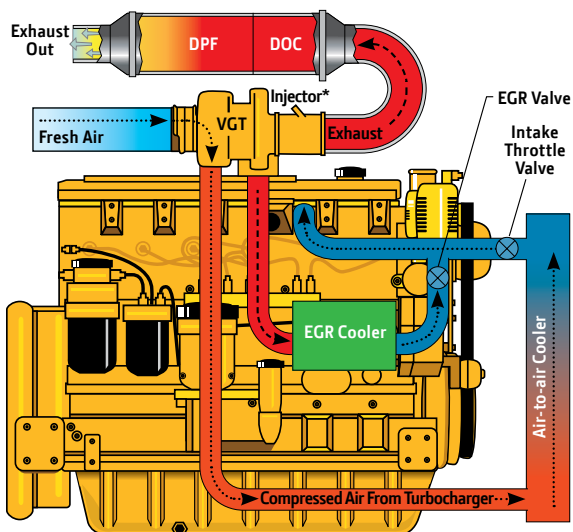


For more information and to see a full list of PowerTech PWX generator-set engine options, please visit [JohnDeere.com/gendrivePWX](http://JohnDeere.com/gendrivePWX).

- Wastegated turbocharger
- Cooled exhaust gas recirculation (EGR)
- Exhaust filters
- High-pressure common-rail (HPCR) and engine control unit (ECU)
- 4-valve cylinder head
- Air-to-air aftercooled
- Compact size
- John Deere electronic engine controls
- Additional features
  - Glow plugs
  - Gear-driven auxiliary drives
  - 500-hour oil change
  - Replaceable wet-type cylinder liners
  - Oil-cooled pistons with hardened ring groove insert
  - Optional variable-speed fan drive improves fuel economy and reduces noise levels
  - Low-pressure fuel system with electrical transfer pump and “auto-prime” feature
  - R.H. and L.H. engine-mounted final fuel filters

# PowerTech PVX 4.5L, 6.8L, and 9.0L engines

EPA Interim Tier 4



\*For engines 130 kW (174 hp) and greater.

- Variable geometry turbocharger (VGT)
- Cooled exhaust gas recirculation (EGR)
- Exhaust filters

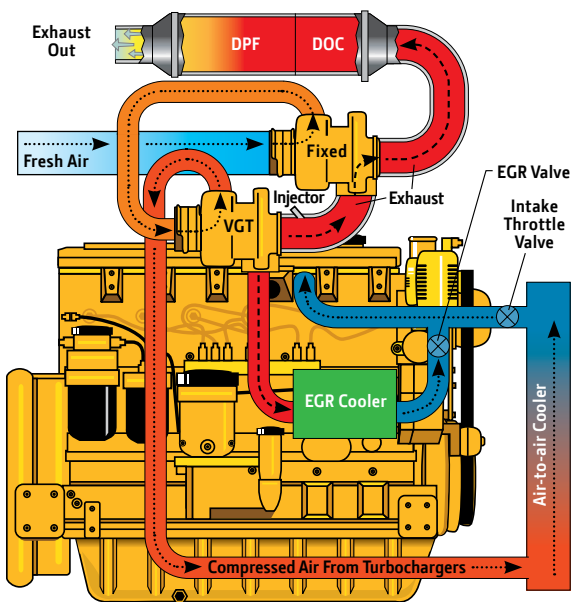
For more information and to see a full list of PowerTech PVX generator-set engine options, please visit [JohnDeere.com/gendrivePVX](http://JohnDeere.com/gendrivePVX).

- High-pressure common-rail (HPCR) and engine control unit (ECU)
- 4-valve cylinder head
- Air-to-air aftercooled
- Compact size
- John Deere electronic engine controls
- Additional features<sup>\*</sup>
  - Glow plugs (4.5L and 6.8L)
  - Gear-driven auxiliary drives
  - Gear-driven water pump (9.0L)
  - 500-hour oil change
  - Replaceable wet-type cylinder liners
  - Directed top-liner cooling (9.0L)
  - Single-piece low-friction steel piston with integrated oil cooled gallery (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

<sup>\*</sup>Available on all PowerTech PVX engines unless noted

# PowerTech PSX 6.8L, 9.0L, and 13.5L engines

EPA Interim Tier 4



- Series turbochargers
- Cooled exhaust gas recirculation (EGR)
- Exhaust filters

For more information and to see a full list of PowerTech PSX generator-set engine options, please visit [JohnDeere.com/gendrivePSX](http://JohnDeere.com/gendrivePSX).

- High-pressure common-rail (HPCR)  
(6.8L and 9.0L)
- Engine control unit (ECU)
- Electronic unit injector (EUI) (13.5L)
- 4-valve cylinder head
- Air-to-air aftercooled
- Compact size
- John Deere electronic engine controls
- Additional features\*
  - Glow plugs (6.8L)
  - Gear-driven auxiliary drives
  - Gear-driven water pump (9.0L and 13.5L)
  - 500-hour oil change
  - Replaceable wet-type cylinder liners
  - Directed top-liner cooling (9.0L and 13.5L)
  - Single-piece low-friction steel piston with integrated oil-cooled gallery (9.0L and 13.5L)
  - Optional variable-speed fan drive improves fuel economy and reduces noise levels
  - Low-pressure fuel system with electrical transfer pump and “auto-prime” feature

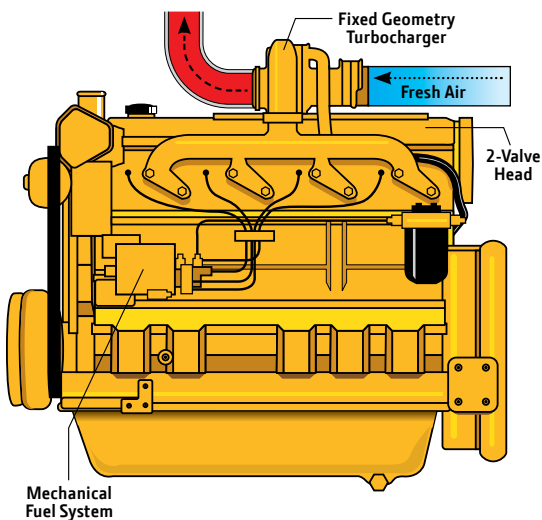
\*Available on all PowerTech PSX engines unless noted



# PowerTech M

## 2.9L and 4.5L engines

EPA Interim Tier 4 and EPA Tier 3/EU Stage III A



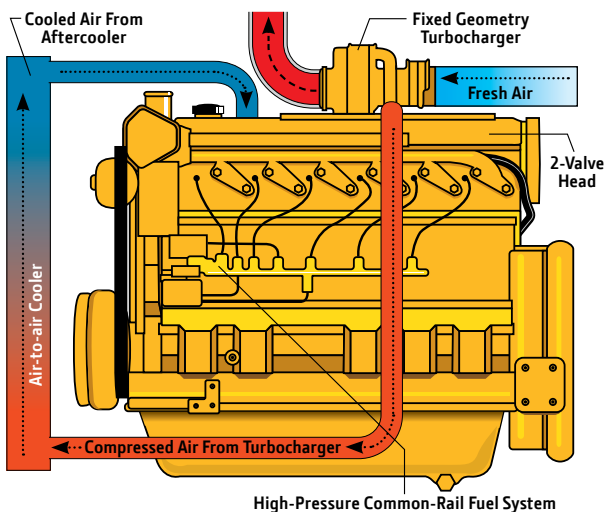
For more information and to see a full list of PowerTech PTM generator-set engine options, please visit [JohnDeere.com/gendrivePTM](http://JohnDeere.com/gendrivePTM).

- Fixed geometry turbocharger
- Turbocharged
- Mechanical rotary pump
- 2-valve cylinder head
  - Cross-flow design
- Air-to-air aftercooled
- Compact size
- Additional features
  - Glow plugs (4.5L)
  - Gear-driven auxiliary drives
  - 500-hour oil change
  - Replaceable wet-type cylinder liners
  - Oil-cooled pistons with hardened ring groove insert
  - Forged-steel connecting rods

# PowerTech E

## 4.5L, 6.8L, 9.0L, and 13.5L\* engines

EPA Tier 3/EU Stage III A



\*13.5L engines are EPA Tier 3 compliant only.

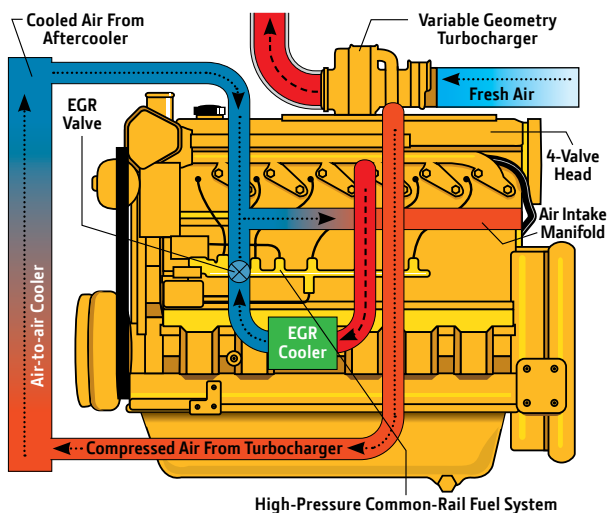
For more information and to see a full list of PowerTech PTE generator-set engine options, please visit [JohnDeere.com/gendrivePTE](http://JohnDeere.com/gendrivePTE).

- Fixed geometry turbocharger
- High-pressure common-rail (HPCR) and engine control unit (ECU)
- Electronic unit injector (13.5L)
- 2-valve cylinder head  
Cross-flow design
- 4-valve cylinder head (9.0L and 13.5L)
- Air-to-air aftercooled
- Compact size
- John Deere electronic engine controls
- Additional features
  - Gear-driven auxiliary drives
  - Gear-driven water pump (9.0L and 13.5L)
  - 500-hour oil change
  - Replaceable wet-type cylinder liners
  - Directed top-liner cooling (9.0L and 13.5L)
  - Single-piece low-friction steel piston with integrated oil-cooled gallery (9.0L and 13.5L)
  - Low-pressure fuel system with electrical transfer pump and “auto-prime” feature

# PowerTech Plus

## 4.5L, 6.8L, 9.0L, and 13.5L engines

EPA Tier 3



- Variable geometry turbocharger (VGT)
- Cooled exhaust gas recirculation (EGR)

For more information and to see a full list of PowerTech PTP generator-set engine options, please visit [JohnDeere.com/gendrivePTP](http://JohnDeere.com/gendrivePTP).

- High-pressure common-rail (HPCR) and engine control unit (ECU) (4.5L and 6.8L)
- Electronic unit injector (EUI) and engine control unit (ECU) (13.5L)
- 4-valve cylinder head
- Air-to-air aftercooled
- Compact size
- John Deere electronic engine controls
- Additional features
  - Glow plugs (4.5L and 6.8L)
  - Gear-driven auxiliary drives
  - Gear-driven water pump (9.0L and 13.5L)
  - 500-hour oil change
  - Replaceable wet-type cylinder liners
  - Directed top-liner cooling (9.0L and 13.5L)
  - Single-piece low-friction steel piston with integrated oil cooled gallery (13.5L)
  - Low-pressure fuel system with electrical transfer pump and “auto-prime” feature

# Definitions

**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 percent) to provide 100 percent meet-or-exceed performance for assembled standby generator sets.



# Conversions

## Generator drive rating (kWe)

$$\text{kWe} = [\text{Engine power (kW)} - \text{Fan power loss (kW)}] \times \text{Generator efficiency}$$

Note: Marine generator sets do not have fan power loss

## Power factor (PF)

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

PF constant = 0.80

## Formulas

$$\text{(Standby power, kWe)} = \text{(Prime power, kWe)} * \text{(110\% Overload capacity)}$$

$$\text{kWe rating}/.8 = \text{kVA rating}$$

$$\text{Newton-meter} = \text{lb-ft} \times 1.356$$

$$\text{Newton} = \text{lb force} \times 4.448$$

$$\text{Meter} = \text{ft} \times 0.3048$$

$$\text{Millimeter} = \text{in} \times 25.4$$

$$\text{Kilogram} = \text{lb} \times 0.454$$

$$\text{Liter} = \text{gallon} \times 3.785$$

$$\text{Liter} = \text{cu in} \times 0.01639$$

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

$$\text{Kilowatt} = \text{hp} \times 0.746$$

$$\text{(Kilowatt} = \frac{\text{(volts} \times \text{amps)}}{1000}$$

$$\text{Celsius} = (\text{F}-32) \times 0.556$$



# Customer support

With John Deere, you never have far to go to find expert assistance and advice. The more than 4,000 service locations throughout the world give you peace of mind that you can get service when and where you need it.

We have centralized parts warehouses in the United States and Europe, plus numerous worldwide depots that employ overnight parts shipping — so you'll never have to wait long for parts.

In addition, John Deere service personnel are highly trained technicians who stay on top of changing engine technologies and service techniques.

John Deere dealers and distributors are your best source for service, knowledge, and engine accessories. They're one of the many reasons to specify John Deere engines in your equipment.





JOHN DEERE

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# JOHN DEERE



This literature has been compiled for worldwide circulation. While general information, pictures, and descriptions are provided, some illustrations and text may include finance, credit, insurance, product options, and accessories NOT AVAILABLE in all regions. PLEASE CONTACT YOUR LOCAL DEALER FOR DETAILS.

John Deere reserves the right to change specification and design of all products described in this literature without notice.





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# Generator-set engine identification plate



**PE 6 068 H F 285**

Engine model number

## Model designation key

Below is a key for the engine models shown in this guide.

A model designated as 6068H is a 6-cylinder, 6.8-liter turbocharged and air-to-air aftercooled engine. A model designated as 4045T is a 4-cylinder, 4.5-liter turbocharged engine.

**6068H**

Aspiration  
Displacement in liters  
Number of cylinders



### Emissions certification

129, 150, 250, 258, 475, G55	Non emissions certified - 50 Hz
129, 150, 250, 275, 475, G55	Non emissions certified - 60 Hz
270, 275, 279, 475	Stage II
280, 285, 484, 485, G75*,	Tier 3
G82, G84, G85, G86, G89	
G81, G82, G84, G89	Stage III A
290, G92, G93, G94, G95	Interim Tier 4
G03, G04, G08, G09	Final Tier 4
258, U29, U55	Non-certified Generator Set Power Unit (GSPU)
U89, U70, U72, U74, U79	Stage II Generator Set Power Unit (GSPU)
U81, U82, U84	Stage III A Generator Set Power Unit (GSPU)

### Engine controls (starting with some Tier 2/Stage II engines)

0 or 1	Mechanical controls
2,3,4,5, or 6	Electronic controls

### Valves per cylinder (Tier 2, Tier 3, and Stage II engines)

2	2 valves
4	4 valves

### Engine type (Tier 3, Interim Tier 4, Final Tier 4, and Stage III A engines)

G	Generator-set (bare engine)
U	Generator-set power unit (GSPU)
M	Marine

### User type

F	OEM (John Deere Power Systems)
XX	Other letters are used to identify John Deere equipment manufacturing locations

### Aspiration

D	Naturally aspirated
T	Turbocharged
A	Turbocharged and air-to-coolant aftercooled
H	Turbocharged and air-to-air aftercooled
S	Turbocharged and air-to-sea water aftercooled

\*This PowerTech engine is capable of meeting Tier 2 emissions as required by emergency stationary regulations (>560 kW).

# Nonstop power wherever you need it

John Deere generator drive engines keep the power on through the most powerful storms and in the most remote locations on Earth. Our engines meet emissions regulations while delivering quick-starting, clean-running, and fuel-efficient performance. Plus, they are available with more power in a compact size for installation flexibility.

## Power at a moment's notice

John Deere-powered standby generator sets protect critical applications, ensure uninterrupted productivity, and offer peace of mind. The EPA allows emergency standby applications to use current Tier 3 products that do not require aftertreatment. The European Union (EU) does not regulate emergency standby applications.

## Power in remote locations

John Deere generator drive engines provide prime power for pumping stations, peak shaving, distributed power, mining, and other remote applications. Since January 1st, 2011, prime power applications were required to meet Interim Tier 4 emissions regulations in North America and Stage III A in Europe. Final Tier 4 emissions regulations for engines 130 kW (174 hp) and above began in January 2014, and will be fully implemented for engines 56 to 129 kW (75 to 174 hp) by 2015.

# Emissions information

The ultimate in performance, fuel economy, and emissions compliance is available with John Deere engines. To meet emissions regulations, John Deere worked closely with equipment manufacturers to identify engine technologies that best suited their needs.

John Deere offers non-certified engines as well as engines that comply with nonroad emissions regulations for the U.S. Environmental Protection Agency (EPA), the European Union (EU), and the California Air Resources Board (CARB).



Visit [www.JohnDeere.com/gendrive](http://www.JohnDeere.com/gendrive) to learn more about reliable John Deere engines for prime and standby power.

# EPA off-highway emissions regulations

kW	hp	2006	2007	2008	2009	2010	2011	2012	2013
0-7	0-10	7.5 0.80		7.5 0.40					
8-18	11-24	7.5 0.80		7.5 0.40					
19-36	25-49	7.5 0.60		7.5 0.30					4.7 0.03
37-55	50-74	7.5 0.40		4.7 0.30	Option 1*				4.7 0.03
				4.7 0.40	Option 2*			4.7 0.03	
56-74	75-99	7.5 0.40		4.7 0.40				3.4 0.19 0.02	
75-129	100-174	6.6 0.30	4.0 0.30					3.4 0.19 0.02	
130-224	175-299						2.0 0.19 0.02		
225-449	300-599	4.0 0.20					2.0 0.19 0.02		
450-559	600-749						2.0 0.19 0.02		
≥560	≥750	6.4 0.20					3.5 0.40 0.10		
560-900 Generator Sets	750-1200 Generator Sets	6.4 0.20					3.5 0.40 0.10		

\*In the 50 to 74 horsepower category there are two options. Option 1 requires a reduced PM level (.30 vs .40) but allows Final Tier 4 to be delayed one year (2013)


**NOTE:** In emergency stationary applications, the EPA does not require any engine with add-on controls such as exhaust filter and SCR catalysts.


## Fuel sulfur regulations

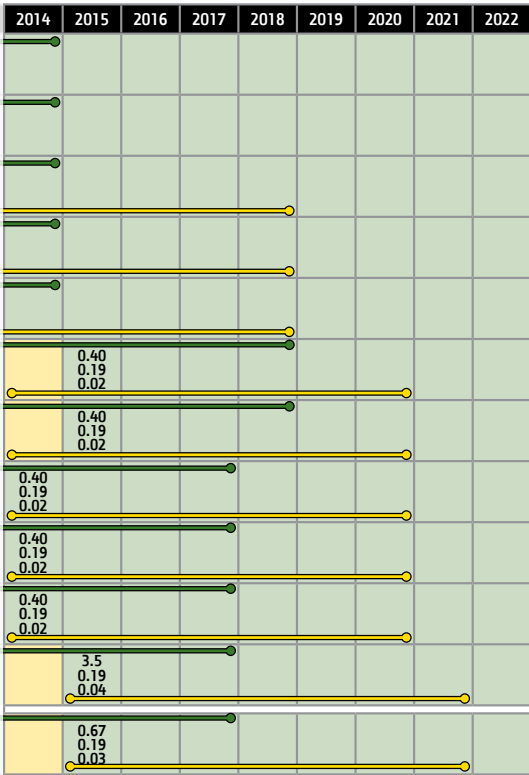
	2006	2007	2008	2009	2010	2011	2012	2013
EPA	5000 ppm		500 ppm				15 ppm	

### Legend

EPA	Tier 2	Tier 3	Interim Tier 4	Final Tier 4
-----	--------	--------	----------------	--------------

 General Availability of Tier 4 Equipment Flexibility Provision

 Delayed Availability of Tier 4 Equipment Flexibility Provision



EPA: Environmental Protection Agency

2014	2015	2016	2017	2018	2019	2020	2021	2022
15 ppm								

**Examples**

NOx	2.0
NMHC	0.19
PM	0.025

2.0, the maximum amount of nitrogen oxides (NOx) allowed in g/kWh.

0.19, the maximum amount of nonmethane hydrocarbons (NMHC) allowed in g/kWh.

0.025, the maximum amount of particulate matter (PM) allowed in g/kWh.

NMHC + NOx	7.5
PM	0.80

7.5, the maximum amount of NMHC + NOx allowed in g/kWh.

0.80, the maximum amount of PM allowed in g/kWh.

# EU off-highway mobile emission regulations — constant speed engines

kW	hp	2007	2008	2009	2010	2011	2012	2013	2014
0-7	0-10	Not regulated in EU							
8-18	11-24	Not regulated in EU							
19-36	25-49	8.0 1.5 0.80				7.5 0.60			
37-56	50-74	7.0 1.3 0.40					4.7 0.40		
57-74	75-99	7.0 1.3 0.40					4.7 0.40		
75-129	100-174	6.0 1.0 0.30				4.0 0.30			
130-559	175-749	6.0 1.0 0.20				4.0 0.20			
≥560	≥750	Not regulated in EU							

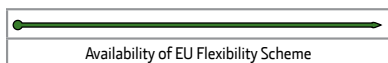
## Fuel sulfur regulations

	2007	2008	2009	2010	2011	2012	2013	2014
EU	2000 ppm	1000 ppm			10 ppm			

### Legend

EU	Stage II	Stage III A
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New emissions regulations take effect January 1 of the year indicated by color change unless otherwise noted.



2015	2016	2017	2018
Not regulated in EU			
Not regulated in EU			
Not regulated in EU			

2015	2016	2017	2018
10 ppm			

### Examples

NOx	2.0
NMHC	0.19
PM	0.025

2.0, the maximum amount of nitrogen oxides (NOx) allowed in g/kWh.

0.19, the maximum amount of nonmethane hydrocarbons (NMHC) allowed in g/kWh.

0.025, the maximum amount of particulate matter (PM) allowed in g/kWh.

NMHC + NOx	7.5
PM	0.80

7.5, the maximum amount of NMHC + NOx allowed in g/kWh.

0.80, the maximum amount of PM allowed in g/kWh.

# EPA Final Tier 4

## 60 Hz

Engine model	Rated speed	Engine power standby		Standby ratings	
	rpm	kW	hp	kVA	kWe <sup>(1)</sup>
<b>PowerTech EWX</b>					
3029HFG03	1800	36	48	39	31
3029HFG03	1800	48	64	52	41
3029HFG03	1800	55	74	59	48
4045TFG03	1800	55	74	58	46
<b>PowerTech PWL</b>					
4045HFG04	1800	68	91	71	57
4045HFG04	1800	80	107	84	67
4045HFG04	1800	99	133	104	83
<b>PowerTech PVS</b>					
6068HFG08	1800	150	201	159	127
6068HFG08	1800	180	241	190	152
<b>PowerTech PSS</b>					
4045HFG09	1800	105	141	111	89
4045HFG09	1800	124	166	131	105
6068HFG09	1800	216	290	231	185
6068HFG09	1800	240	322	257	205
6090HFG09	1800	237	318	254	203
6090HFG09	1800	273	366	293	234
6090HFG09	1800	297	398	318	254
6090HFG09	1800	326	437	349	279
6090HFG09	1800	345	463	369	295
6135HFG09	1800	356	477	385	308
6135HFG09	1800	411	551	444	355
6135HFG09	1800	473	634	511	409

<sup>(1)</sup> Electrical power is calculated from the typical generator efficiency and fan power percentages shown. Applications may vary.



Engine power prime		Prime ratings		Typical generator efficiency	Typical fan power
kW	hp	kVA	kWe <sup>(1)</sup>	%	kW
33	44	36	28	90	1.4
44	58	47	38	90	1.9
50	67	54	43	90	2.2
50	67	52	42	90	3.9
63	83	66	52	90	4.8
73	98	76	61	90	5.6
90	121	93	75	90	6.9
136	183	143	114	90	9.0
164	219	172	138	90	10.8
95	128	100	80	90	6.3
113	151	119	95	90	7.4
196	263	208	167	91	13.0
218	293	232	185	91	14.4
216	290	229	183	91	14.2
249	334	264	211	91	16.4
271	364	286	229	91	17.8
298	399	315	252	91	19.6
N/A	N/A	N/A	N/A	91	19.6
325	436	348	278	92	21.4
375	503	401	321	92	24.7
432	579	461	369	92	28.4

# EPA Interim Tier 4 60 Hz

Engine model	Rated speed	Engine power standby		Standby ratings	
	rpm	kW	hp	kVA	kWe <sup>(1)</sup>
<b>PowerTech M</b>					
4045TF290	1800	55	74	59-60	45-48
<b>PowerTech PWX</b>					
4045HFC92	1800	67	90	68-71	54-57
4045HFC92	1800	80	107	81-85	65-68
4045HFC92	1800	99	133	100-105	80-84
<b>PowerTech PVX</b>					
4045HFC93	1800	105	141	106-111	85-89
4045HFC93	1800	124	166	125-131	100-105
6068HFC94	1800	150	201	155-163	124-130
6068HFC94	1800	180	241	186-195	149-156
6090HFC94	1800	237	318	251-262	201-209
<b>PowerTech PSX</b>					
6068HFC95	1800	216	290	228-239	183-191
6090HFC95	1800	272	365	289-302	231-241
6090HFC95	1800	297	398	314-328	251-262
6090HFC95	1800	328	440	345-360	276-288
6135HFC95	1800	356	477	376-393	301-315
6135HFC95	1800	411	551	435-454	348-363
6135HFC95	1800	473	634	506-528	405-422

<sup>(1)</sup> Electrical power is calculated from the typical generator efficiency and fan power percentages shown. Applications may vary.

Engine power prime		Prime ratings		Typical generator efficiency	Typical fan power
kW	hp	kVA	kWe <sup>(1)</sup>	%	kW
50	67	51-54	41-43	88-92	3.3
61	82	61-65	49-52	88-92	5.4
73	97	74-78	59-62	88-92	6.4
90	121	91-95	73-76	88-92	7.9
95	127	96-101	77-81	88-92	8.4
113	152	114-119	91-95	88-92	9.9
136	182	141-148	113-118	88-92	9.0
164	220	169-178	135-142	88-92	10.8
215	288	228-238	182-190	90-94	14.2
196	264	208-218	166-174	90-94	13.0
246	330	262-274	210-219	90-94	16.4
267	358	286-298	228-239	90-94	17.8
295	396	313-327	251-262	90-94	19.7
320	429	342-357	274-286	90-94	21.4
370	496	395-413	316-330	90-94	24.7
426	571	460-480	368-384	91-95	28.4

# EPA Tier 3 60 Hz

Engine model	Rated speed	Engine power standby		Standby ratings	
	rpm	kW	hp	kVA	kWe <sup>(1)</sup>
<b>PowerTech M<sup>(6)</sup></b>					
3029TFG89 <sup>(2)(7)</sup>	1500	31	42	32–34	25–27
	1800	35	47	35–37	28–30
3029HFG89 <sup>(2)</sup>	1500	43	58	46–48	36–38
	1800	46	62	48–50	38–40
4045TF280	1800	56	75	60–63	48–50
4045TF280	1800	63	85	68–70	54–56
4045HF280	1800	74	99	79–83	63–66
<b>PowerTech E</b>					
4045TF285	1800	74	99	76–79	61–63
4045HF285	1800	94	126	98–103	78–82
4045HF285	1800	99	133	104–108	83–86
4045HF285	1800	118	158	123–129	98–103
4045HF285	1800	147	197	155–161	124–129
6068HF285	1800	147	197	153–160	122–128
6068HF285	1800	177	237	184–193	147–154
6068HFG82 <sup>(3)</sup>	1500	202	271	213–223	170–179
	1800	212	284	218–228	174–183
6090HFG84 <sup>(3)</sup>	1500	253	339	266–278	213–223
	1800	258	346	267–280	213–224
6090HFG84 <sup>(3)</sup>	1500	304	408	323–338	258–271
	1800	315	422	331–347	265–277
6090HF484	1800	229	307	242–253	194–202
6090HF484	1800	258	346	273–285	219–228
6090HF484	1800	287	385	304–317	243–254
6090HF484	1800	315	422	333–348	266–278
6090HFG86 <sup>(4)</sup>	1800	345	463	373–389	298–311
6135HFG84 <sup>(4)</sup>	1800	401	538	433–452	346–362
6135HFG84 <sup>(4)</sup>	1800	460	617	497–519	397–415
6135HFG75 <sup>(4)(5)</sup>	1800	563	755	615–642	492–513
<b>PowerTech Plus<sup>(6)</sup></b>					
4045HFG85	1800	147	197	155–161	124–129
6068HFG85	1800	212	284	226–236	181–189
6068HFG85	1800	235	315	243–254	194–203
6090HF485	1800	315	422	336–351	269–281
6135HF485	1800	345	463	367–383	293–306
6135HF485	1800	401	538	426–445	341–356
6135HF485	1800	460	617	500–511	400–409

<sup>(1)</sup> Electrical power is calculated from the typical generator efficiency and fan power percentages shown. Applications may vary.

<sup>(2)</sup> 60 Hz/50 Hz dual frequency is available on these engines and meet EPA Interim Tier 4 and EU Stage III A emissions regulations.

<sup>(3)</sup> 60 Hz/50 Hz dual frequency is available on these engines and meet EPA Tier 3 and EU Stage III A emissions regulations.

<sup>(4)</sup> Available for emergency stationary applications only.

<sup>(5)</sup> This PowerTech engine is capable of meeting Tier 2 emissions as required by emergency stationary regulations (>560 kW).

Engine power prime		Prime ratings		Typical generator efficiency	Typical fan power
kW	hp	kVA	kWe <sup>(1)</sup>	%	kW
28	38	29–31	23–25	88–92	1.3
31	42	32–34	25–27	88–92	2.2
39	52	41–43	33–35	88–92	1.5
42	56	43–45	34–36	88–92	2.6
51	68	54–56	43–45	88–92	1.9
57	76	60–64	48–51	88–92	1.9
67	90	71–75	57–60	88–92	2.2
67	90	68–71	54–57	88–92	5.2
86	115	89–93	71–74	88–92	5.2
90	121	94–98	75–78	88–92	5.2
107	144	111–116	89–93	88–92	6.5
134	179	140–146	112–117	88–92	6.5
134	180	139–145	111–116	88–92	8.1
161	216	166–174	133–139	88–92	9.8
184	246	193–202	154–162	88–92	7.3
193	259	197–206	157–165	88–92	12.6
230	309	240–252	192–201	90–94	15.2
235	315	241–252	192–202	90–94	18.9
277	371	292–306	234–245	90–94	15.2
287	384	299–313	239–251	90–94	18.9
208	279	218–228	175–183	90–94	13.7
235	315	247–258	197–206	90–94	15.5
258	346	276–288	221–231	90–94	17.2
284	380	303–316	242–253	90–94	18.9
N/A	N/A	N/A	N/A	90–94	13.8
N/A	N/A	N/A	N/A	90–94	16.0
N/A	N/A	N/A	N/A	90–94	18.4
N/A	N/A	N/A	N/A	91–95	22.5
134	179	140–146	112–117	88–92	6.5
193	258	205–214	164–171	88–92	6.5
214	286	220–230	176–184	88–92	14.1
287	385	305–318	244–255	90–94	16.1
311	416	330–345	264–276	90–94	19.9
365	489	388–405	310–324	90–94	22.0
419	561	455–465	364–372	92–94	25.3

<sup>(6)</sup> Jet fuel ratings available, contact your John Deere engine distributor for a complete listing.

<sup>(7)</sup> Generator set power unit (GSPU) available. A GSPU is a John Deere factory-built gen-set power unit, based on a bare engine with mounting pads, cooling package, and air filter.

# Non-emissions certified 60 Hz

Engine model	Rated speed	Engine power standby		Standby ratings	
	rpm	kW	hp	kVA	kWe <sup>(1)</sup>
3029DF129 <sup>(8)</sup>	1800	35	47	35 – 37	28 – 30
3029TF129	1800	48	64	50 – 52	40 – 42
4045DF270	1800	50	67	52 – 55	42 – 44
4045DF150	1800	53	71	55 – 58	44 – 46
4045TF150	1800	74	99	78 – 81	62 – 65
4045TF270	1800	74	99	77 – 81	62 – 65
4045TF250	1800	84	113	88 – 92	70 – 74
4045TF275	1800	84	113	88 – 92	70 – 73
4045TF250	1800	100	134	105 – 109	84 – 87
4045HF275	1800	108	145	113 – 118	90 – 94
4045HF275	1800	117	157	121 – 128	97 – 102
4045HF150	1800	123	165	129 – 134	103 – 107
4045HF475	1800	143	192	148 – 156	119 – 124
6068TF150	1800	112	150	116 – 122	93 – 98
6068TF275	1800	123	165	129 – 134	103 – 108
6068TF250	1800	142	190	148 – 155	118 – 124
6068HF250	1800	148	198	154 – 161	123 – 129
6068HF275	1800	164	220	171 – 179	137 – 143
6068HF275	1800	187	250	195 – 204	156 – 163
6068HF150	1800	187	251	195 – 204	156 – 163
6068HF275	1800	210	282	219 – 229	176 – 184
6068HF150	1800	210	282	220 – 230	176 – 184
6068HF475	1800	210	282	223 – 233	178 – 186
6068HF475 <sup>(8)</sup>	1800	234	314	245 – 256	196 – 205
6068HFG55 <sup>(8)(9)</sup>	1500	250	335	264 – 276	211 – 221
6068HFG55 <sup>(8)(9)</sup>	1800	260	349	266 – 278	213 – 222
6135HF475	1800	330	442	353 – 368	282 – 295
6135HF475	1800	360	483	385 – 402	308 – 322
6135HF475	1800	420	563	449 – 469	359 – 375
6135HF475	1800	460	617	492 – 513	393 – 411

<sup>(1)</sup> Electrical power is calculated from the typical generator efficiency and fan power percentages shown. Applications may vary.

<sup>(8)</sup> A GSPU is available at this power node.

<sup>(9)</sup> 50 Hz/60 Hz dual frequency is a standard feature.

Engine power prime		Prime ratings		Typical generator efficiency	Typical fan power	Emissions Level
kW	hp	kVA	kWe <sup>(1)</sup>	%	kW	Tier
31	42	31–33	25–26	88–92	3.0	Non-certified
44	59	46–48	37–38	88–92	2.4	Non-certified
46	62	48–50	38–40	88–92	2.5	2
48	64	50–52	40–42	88–92	2.6	1
67	90	70–73	56–58	88–92	3.7	1
67	90	70–73	56–58	88–92	3.7	2
76	102	79–82	63–66	88–92	4.1	1
76	102	79–83	64–66	88–92	4.2	2
90	121	94–98	75–78	88–92	5.0	1
98	131	102–107	82–85	88–92	5.4	2
106	142	109–115	87–92	88–92	5.9	2
111	149	115–120	92–96	88–92	6.0	1
130	174	134–141	107–112	88–92	7.2	2
101	135	105–110	84–88	88–92	5.6	1
112	150	116–122	93–97	88–92	6.2	2
128	172	132–139	106–111	88–92	7.1	1
133	178	137–144	110–115	88–92	7.5	1
149	200	155–162	124–130	88–92	8.2	2
170	228	177–185	141–148	88–92	9.4	2
168	225	174–182	139–146	88–92	9.3	1
191	256	198–207	159–166	88–92	10.5	2
189	253	196–205	157–164	88–92	10.4	1
191	256	201–210	161–168	89–93	10.5	Non-certified
213	286	221–231	177–185	88–92	11.7	2
227	304	239–250	191–200	88–92	10.0	Non-certified
237	318	240–251	192–201	88–92	18.5	Non-certified
300	402	319–333	255–267	90–94	16.4	Stage II
327	439	348–363	278–291	90–94	17.9	Stage II
382	512	406–424	325–339	90–94	20.9	Stage II
418	561	444–464	355–371	90–94	23.0	Stage II

# EU Stage III A/EPA Tier 3 50 Hz/60 Hz <sup>[10]</sup>

Engine model	Rated speed	Engine power standby		Standby ratings	
	rpm	kW	hp	kVA	kWe <sup>[1]</sup>
<b>PowerTech M</b>					
3029TFG89 <sup>[3][6]</sup>	1500	31	42	32–34	25–27
	1800	35	47	35–37	28–30
3029HFG89 <sup>[2]</sup>	1500	43	58	46–48	36–38
	1800	46	62	48–50	38–40
4045HFG81	1500	61	82	57–60	46–48
	1800	65	87	54–57	43–45
<b>PowerTech E</b>					
4045HFG82	1500	83	111	89–93	71–74
	1800	86	115	90–95	72–76
4045HFG82	1500	103	138	108–114	87–91
	1800	106	142	108–114	87–91
4045HFG82	1500	123	165	128–134	102–107
	1800	126	169	126–132	101–106
6068HFG82	1500	153	205	159–167	127–133
	1800	156	209	156–164	125–131
6068HFG82	1500	202	271	213–223	170–179
	1800	212	284	218–228	174–183
6090HFG84	1500	253	339	266–278	213–223
	1800	258	346	267–280	213–224
6090HFG84	1500	304	408	323–338	258–271
	1800	315	422	331–347	265–277

<sup>[1]</sup> Electrical power is calculated from the typical generator efficiency and fan power percentages shown. Applications may vary.

<sup>[2]</sup> 60 Hz/50 Hz dual frequency is available on these engines and meet EPA Interim Tier 4 and EU Stage III A emissions regulations.

<sup>[3]</sup> 60 Hz/50 Hz dual frequency is available on these engines and meet EPA Tier 3 and EU Stage III A emissions regulations.

<sup>[6]</sup> Jet fuel ratings available, contact your John Deere engine distributor for a complete listing.

<sup>[7]</sup> Generator set power unit (GSPU) available. A GSPU is a John Deere factory-built gen-set power unit, based on a bare engine with mounting pads, cooling package, and air filter.

<sup>[10]</sup> 50 Hz/60 Hz dual frequency is a standard feature on the EU Stage III A range.



Engine power prime		Prime ratings		Typical generator efficiency	Typical fan power	GSPU <sup>(7)</sup> model
kW	hp	kVA	kWe <sup>(1)</sup>	%	kW	
28	38	29–31	23–25	88–92	1.3	3029TFU89
31	42	32–34	25–27	88–92	2.2	
39	52	41–43	33–35	88–92	1.5	3029HFU89
42	56	43–45	34–36	88–92	2.6	
56	75	51–54	41–43	88–92	9.0	4045HFU81
59	79	48–50	38–40	88–92	15.5	
76	101	81–84	64–67	88–92	2.0	4045HFU82
78	105	82–86	65–69	88–92	3.4	
94	126	98–103	79–82	88–92	4.0	4045HFU82
96	129	98–103	78–82	88–92	6.7	
112	150	116–121	92–97	88–92	6.0	4045HFU82
115	154	113–119	91–95	88–92	10.3	
139	187	144–151	115–121	88–92	7.3	6068HFU82
142	190	140–148	112–118	88–92	12.6	
184	246	193–202	154–162	88–92	7.3	6068HFU82
193	259	197–206	157–165	88–92	12.6	
230	309	240–252	192–201	90–94	15.2	6090HFU84
235	315	241–252	192–202	90–94	18.9	
277	371	292–306	234–245	90–94	15.2	6090HFU84
287	384	299–313	239–251	90–94	18.9	

# EU Stage II 50 Hz

Engine model	Rated speed	Engine power standby		Standby ratings	
	rpm	kW	hp	kVA	kWe <sup>(1)</sup>
4045TF270	1500	61	81	64–68	51–54
4045HF275	1500	83	111	86–90	69–72
4045HF279	1500	103	138	106–111	85–89
4045HF475	1500	120	161	125–131	100–104
6068HF275	1500	123	165	132–138	105–110
6068HF279	1500	153	205	159–165	127–132
6068HF475	1500	183	245	196–205	157–164
6068HF475	1500	207	278	219–229	175–183
6090HF475	1500	253	339	270–279	216–224
6090HF475	1500	304	408	325–336	260–269
6135HF475	1500	355	476	379–392	304–314
6135HF475	1500	405	543	433–447	346–358
6135HF475	1500	456	612	487–504	390–403

<sup>(1)</sup> Electrical power is calculated from the typical generator efficiency and fan power percentages shown. Applications may vary.

<sup>(11)</sup> Generator set power unit (GSPU). A GSPU is a John Deere factory-built gen-set power unit, based on a bare engine with mounting pads, cooling package, and air filter.

Engine power prime		Prime ratings		Typical generator efficiency	Typical fan power	GSPU <sup>(1)</sup> model
kW	hp	kVA	kWe <sup>(1)</sup>	%	kW	
55	74	58–61	47–49	88–92	2.0	4045TFU70
75	101	77–81	62–65	88–92	4.8	4045HFU72
94	126	94–99	75–79	88–92	6.2	4045HFU79
109	146	112–118	90–94	88–92	6.0	N/A
111	149	118–124	95–99	89–93	4.5	6068HFU72
139	186	143–150	114–120	88–92	9.2	6068HFU79
166	223	177–185	142–148	89–93	6.5	6068HFU74
188	252	198–206	158–165	89–93	10.4	6068HFU74
230	308	243–251	195–201	90–93	12.7	N/A
274	367	292–302	234–242	90–93	15.2	N/A
323	433	345–357	276–285	90–93	17.8	N/A
369	494	394–407	315–326	90–93	20.3	N/A
415	556	443–458	355–367	90–93	22.8	N/A

# Non-emissions certified 50 Hz

Engine model	Rated speed	Engine power standby		Standby ratings	
	rpm	kW	hp	kVA	kWe <sup>(1)</sup>
3029DF129	1500	31	41	32–34	26–27
3029TF129	1500	42	56	44–46	35–37
4045DF158 <sup>(12)</sup>	1500	44	59	46–49	37–39
4045TF158 <sup>(12)</sup>	1500	70	94	73–76	58–61
4045TF250	1500	70	94	74–78	59–62
4045TF258 <sup>(12)</sup>	1500	83	111	88–92	70–74
4045HF158 <sup>(12)</sup>	1500	102	137	108–113	86–90
6068TF150	1500	94	126	100–104	80–83
6068TF250	1500	104	139	110–116	88–93
6068TF158 <sup>(12)</sup>	1500	105	141	111–116	89–93
6068TF258 <sup>(12)</sup>	1500	121	162	129–135	103–108
6068HF250	1500	123	165	130–136	104–109
6068HF158 <sup>(12)</sup>	1500	155	208	165–172	132–138
6068HF258 <sup>(12)</sup>	1500	183	245	194–202	155–162
6068HF475	1500	207	278	216–226	173–181
6068HFG55 <sup>(9)</sup>	1500	250	335	264–276	211–221
6068HFG55 <sup>(9)</sup>	1800	260	349	266–278	213–222

<sup>(1)</sup> Electrical power is calculated from the typical generator efficiency and fan power percentages shown. Applications may vary.

<sup>(9)</sup> 50 Hz/60 Hz dual frequency is a standard feature.

<sup>(11)</sup> Generator set power unit (GSPU). A GSPU is a John Deere factory-built gen-set power unit, based on a bare engine with mounting pads, cooling package, and air filter.

<sup>(12)</sup> GSPU only. Not available as bare engine.

All ratings are subject to change.

Engine power prime		Prime ratings		Typical generator efficiency	Typical fan power	GSPU <sup>(1)</sup> model
kW	hp	kVA	kWe <sup>(1)</sup>	%	kW	
27	36	28–29	22–23	88–92	2.0	3029DFU29 <sup>1</sup>
38	51	40–41	32–33	88–92	2.0	3029TFU29
40	54	41–44	33–35	88–92	2.0	4045DF158 <sup>1</sup>
63	84	65–68	52–54	88–92	3.5	4045TF158 <sup>1</sup>
63	84	66–70	53–56	88–92	2.5	N/A
75	101	79–83	63–66	88–92	4.8	4045TF258 <sup>1</sup>
91	122	96–100	77–80	88–92	4.0	4045HF158 <sup>1</sup>
85	114	90–94	72–75	88–92	3.5	N/A
94	126	100–104	80–83	88–92	3.5	N/A
95	127	100–105	80–84	88–92	3.5	6068TF158 <sup>1</sup>
109	146	115–121	92–97	88–92	4.0	6068TF258 <sup>1</sup>
111	149	117–123	94–98	88–92	4.5	N/A
140	188	148–155	118–124	88–92	5.5	6068HF158 <sup>1</sup>
166	223	175–183	140–147	88–92	6.5	6068HF258 <sup>1</sup>
188	252	195–204	156–163	88–92	10.4	N/A
227	304	239–250	191–200	88–92	10.0	6068HFU55
237	318	240–251	192–201	88–92	18.5	Non-certified

# PowerTech marine generator drive ratings

- Quiet, smooth operation
- Preferred provider of generator drive engines worldwide
- Available in 1500 rpm for 50 Hz and 1800 rpm for 60 Hz configurations

Engine model	Emissions rating	Rated speed	Engine prime power		Engine 10% overload power	
		rpm	kW	hp	kW	hp
<b>1500 rpm</b>						
4045DFM50	¥	1500	40	54	44	59
4045DFM70	¥	1500	40	54	44	59
4045TFM50	¥	1500	57	76	63	84
4045TFM75	¥	1500	55	74	61	82
4045TFM85	¥	1500	61	82	67	90
4045AFM85	¥	1500	89	119	98	131
6068TFM50	¥	1500	89	119	98	131
6068AFM75	1	1500	139	186	153	205
6068TFM76	¥	1500	89	119	98	131
6068AFM85	1	1500	139	186	153	205
6068SFM85	1	1500	168	226	185	248
6090AFM75	1	1500	195	261	214	287
6090SFM75	1	1500	222	298	244	328
6090AFM85	1	1500	195	261	214	287
6090SFM85	1	1500	222	298	244	328
6135AFM85	1	1500	278	373	306	410
6135SFM85	1	1500	334	448	367	493
<b>1800 rpm</b>						
4045DFM50	¥	1800	48	64	53	71
4045DFM70	¥	1800	46	62	50	67
4045TFM50	¥	1800	71	95	78	105
4045TFM75	¥	1800	73	98	80	107
4045TFM85	¥, 3	1800	74	99	81	109
4045AFM85	¥, 3	1800	110	148	121	162
6068TFM76	¥	1800	110	148	121	162
6068TFM50	¥	1800	115	154	125	168
6068AFM75	1	1800	166	223	183	245
6068AFM85	1, 3	1800	166	223	183	245
6068SFM85	1, 3	1800	195	262	215	288
6090AFM75	1	1800	222	297	244	327
6090SFM75	1	1800	278	373	306	410
6090AFM85	1, 3	1800	222	297	244	327
6090SFM85	1, 3	1800	278	373	306	410
6135AFM85	1, 3	1800	334	448	367	492
6135SFM85	1, 3	1800	416	558	458	614

#### Emissions rating:

¥. MARPOL Annex VI exempt

1. MARPOL Annex VI compliant

2. EPA Marine Tier 2

3. EPA Marine Tier 3

4. NRMM (97/68/EC) as amended



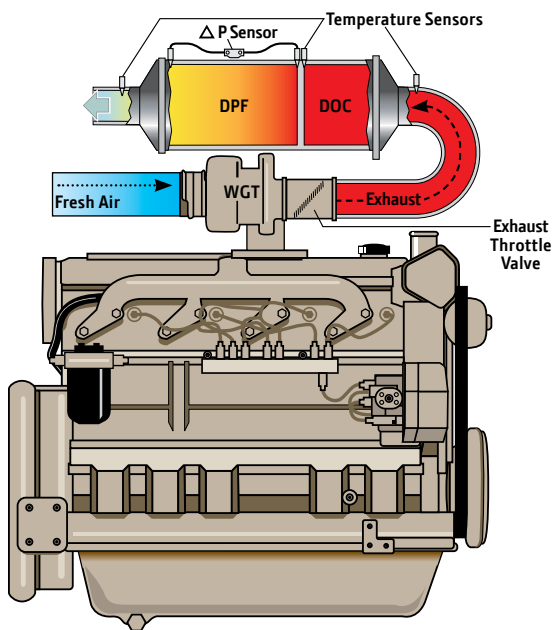
Typical prime ratings		Typical 10% overload ratings		Typical generator efficiency
kVA	kWe	kVA	kWe	%
44-46	35-37	48-51	39-40	88-92
44-46	35-37	48-51	39-41	88-92
62-65	50-52	68-71	55-57	88-92
60-64	48-51	66-70	53-56	88-92
68-70	54-56	75-77	59-62	88-92
98-103	78-82	108-113	86-90	88-92
98-102	78-82	108-113	86-90	88-92
153-160	122-128	169-176	135-141	88-92
98-102	78-82	108-113	86-90	88-92
153-160	122-128	169-176	135-141	88-92
185-194	148-155	204-213	163-170	88-92
214-224	171-179	235-246	188-197	88-92
244-255	195-205	268-281	215-224	88-92
214-224	171-179	235-246	188-197	88-92
244-255	195-205	268-281	215-224	88-92
305-320	244-256	336-353	269-282	88-92
368-384	294-307	405-422	323-338	88-92
52-55	42-44	58-61	47-79	88-92
50-53	40-42	55-58	44-46	88-92
78-81	62-65	86-89	68-71	88-92
80-84	64-67	88-92	70-74	88-92
81-85	65-68	89-94	71-75	88-92
121-126	97-101	133-139	106-111	88-92
121-126	97-101	133-138	106-111	88-92
134-132	99-106	136-145	108-116	88-92
183-191	146-153	201-210	161-168	88-92
183-191	146-153	201-210	161-168	88-92
215-225	172-180	236-248	189-198	88-92
244-255	195-204	269-280	215-224	88-92
305-320	244-256	336-353	269-282	88-92
244-255	195-204	269-280	215-224	88-92
305-320	244-256	336-353	269-282	88-92
366-383	293-306	402-423	322-338	88-92
458-479	366-383	504-527	402-421	88-92

All ratings are subject to change.

# PowerTech EWX

## 2.9L and 4.5L engines

EPA Final Tier 4



PowerTech EWX 4.5L engine configuration shown.

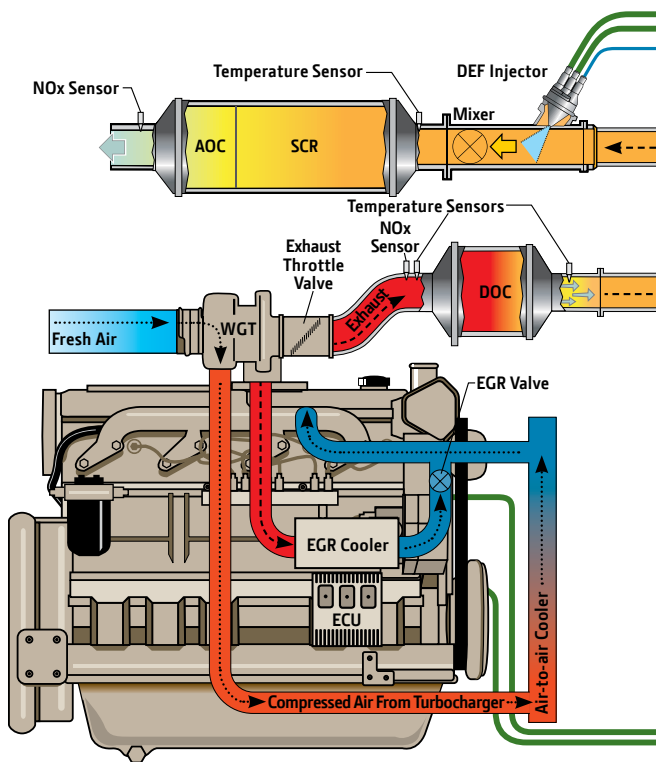
For more information and to see a full list of PowerTech EWX generator-set engine options, please visit [JohnDeere.com/gendriveEWX](http://JohnDeere.com/gendriveEWX).

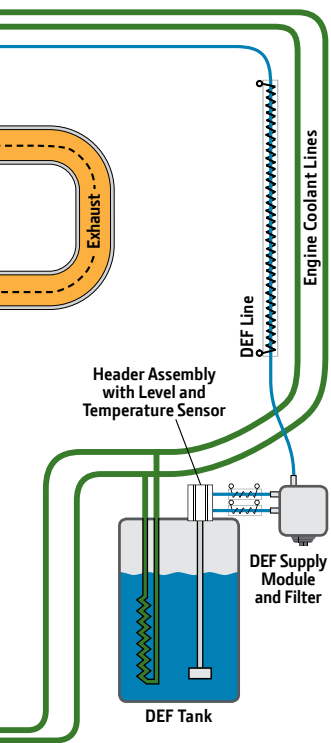


- Wastegated turbocharger
- Exhaust filter
- High-pressure common-rail (HPCR) and engine control unit (ECU)
- 2-valve cylinder head
- Air-to-air aftercooled (2.9L)
- Compact size
- John Deere electronic engine controls
- Additional features
  - Gear-driven auxiliary drives
  - 500-hour oil change
  - Replaceable wet-type cylinder liners
  - Oil-cooled pistons with hardened ring groove insert
  - Forged-steel connecting rods
  - Engine-mounted full flow oil cooler

# PowerTech PWL 4.5L engines

EPA Final Tier 4





- Wastegated turbocharger
- Cooled exhaust gas recirculation (EGR)
- Diesel oxidation catalyst (DOC)
- Selective catalytic reduction (SCR)
- High-pressure common-rail (HPCR) and engine control unit (ECU)
- 4-valve cylinder head
- Air-to-air aftercooled
- Compact size
- John Deere electronic engine controls

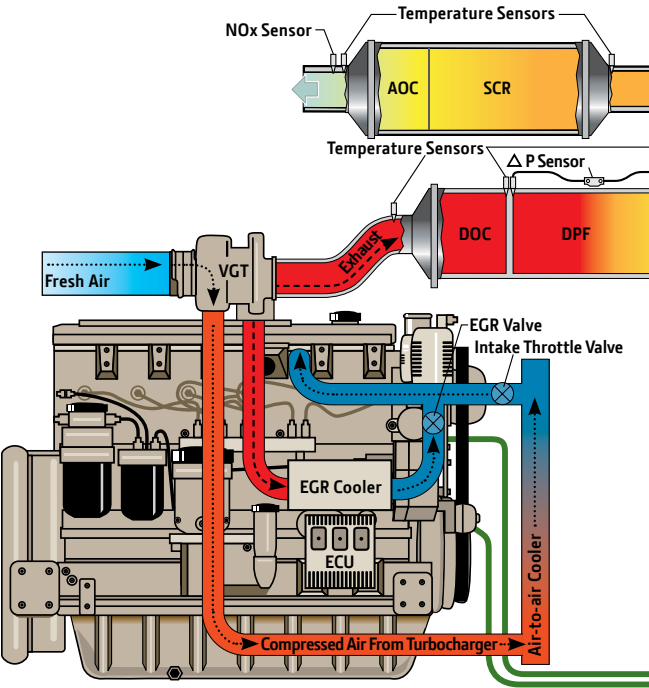
For more information and to see a full list of PowerTech PWL generator-set engine options, please visit [JohnDeere.com/gendrivePWL](http://JohnDeere.com/gendrivePWL).

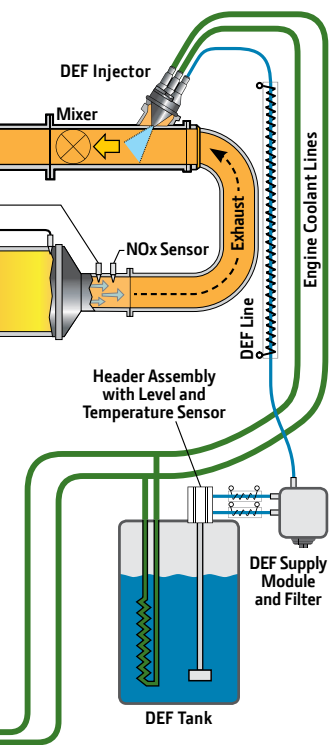
## – Additional features

- Gear-driven auxiliary drives
- 500-hour oil change
- Replaceable wet-type cylinder liners
- Oil-cooled pistons with hardened ring groove insert
- Optional variable-speed fan drive improves fuel economy and reduces noise levels
- Low-pressure fuel system with electrical transfer pump and “auto-prime” feature
- R.H. and L.H. engine-mounted final fuel filters

# PowerTech PVS 6.8L engines

EPA Final Tier 4





- Variable geometry turbocharger (VGT)
- Cooled exhaust gas recirculation (EGR)
- Exhaust filters
- Selective catalytic reduction (SCR)
- High-pressure common-rail (HPCR) and engine control unit (ECU)
- 4-valve cylinder head
- Air-to-air aftercooled
- Compact size
- John Deere electronic engine controls

For more information and to see a full list of PowerTech PVS generator-set engine options, please visit [JohnDeere.com/gendrivePVS](http://JohnDeere.com/gendrivePVS).



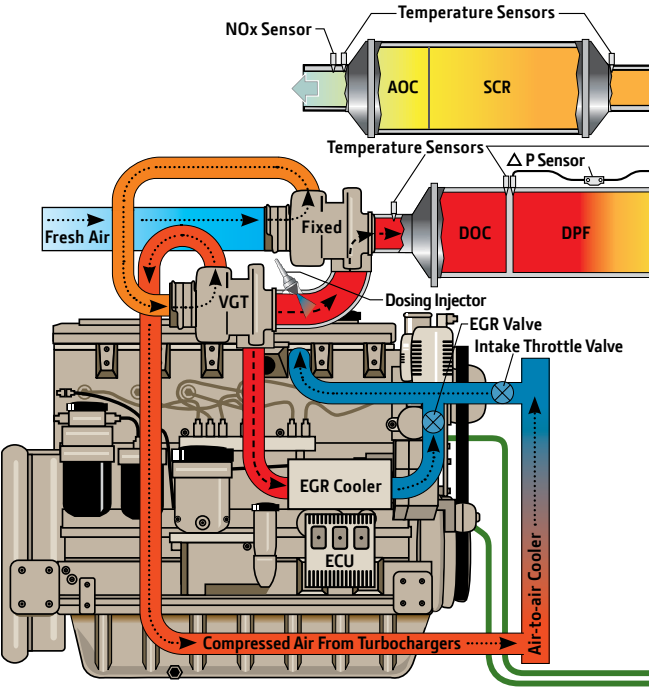
## – Additional features

- Glow plugs
- Gear-driven auxiliary drives
- 500-hour oil change
- Replaceable wet-type cylinder liners
- Oil-cooled pistons with hardened ring groove insert
- Optional variable-speed fan drive improves fuel economy and reduces noise levels
- Low-pressure fuel system with electrical transfer pump and “auto-prime” feature

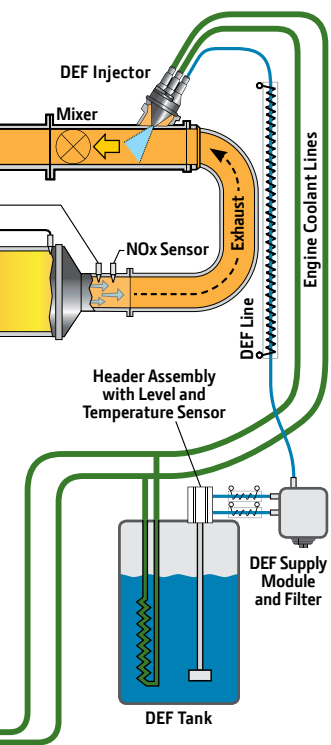
# PowerTech PSS

## 4.5L, 6.8L, 9.0L, and 13.5L engines

EPA Final Tier 4



PowerTech PSS 9.0L and 13.5L engine configuration shown.



- Series turbochargers
- Cooled exhaust gas recirculation (EGR)
- Exhaust filters
- Selective catalytic reduction (SCR)
- High-pressure common-rail (HPCR) and engine control unit (ECU)  
(4.5L, 6.8L, and 9.0L)
- Electronic unit injector (EUI) and engine control unit (ECU) (13.5L)
- 4-valve cylinder head
- Air-to-air aftercooled
- Compact size
- John Deere electronic engine controls

For more information and to see a full list of PowerTech PSS generator-set engine options, please visit [JohnDeere.com/gendrivePSS](http://JohnDeere.com/gendrivePSS).

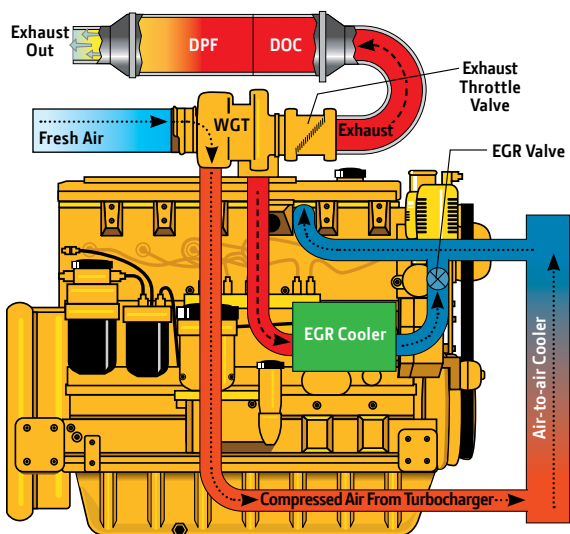
## – Additional features\*

- Glow plugs (4.5L and 6.8L)
- Gear-driven auxiliary drives
- Gear-driven water pump (9.0L and 13.5L)
- 500-hour oil change
- Replaceable wet-type cylinder liners
- Directed top-liner cooling (6.8L, 9.0L, and 13.5L)
- Single-piece low-friction steel piston with integrated oil-cooled gallery (6.8L, 9.0L, and 13.5L)
- Optional variable-speed fan drive improves fuel economy and reduces noise levels
- Low-pressure fuel system with electrical transfer pump and “auto-prime” feature

\*Available on all PowerTech PSS engines unless noted

# PowerTech PWX 4.5L engines

EPA Interim Tier 4

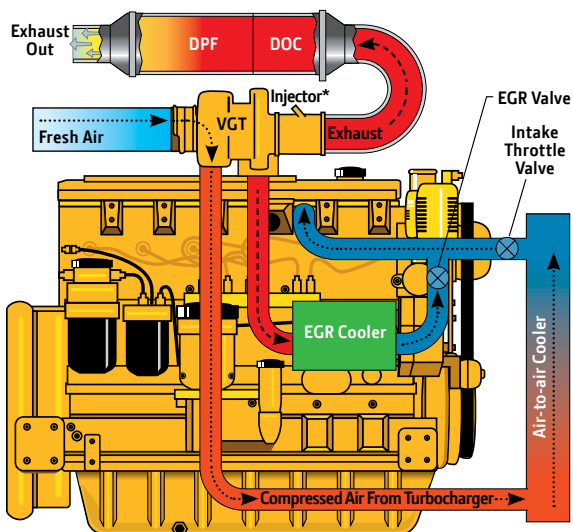


For more information and to see a full list of PowerTech PWX generator-set engine options, please visit [JohnDeere.com/gendrivePWX](http://JohnDeere.com/gendrivePWX).

- Wastegated turbocharger
- Cooled exhaust gas recirculation (EGR)
- Exhaust filters
- High-pressure common-rail (HPCR) and engine control unit (ECU)
- 4-valve cylinder head
- Air-to-air aftercooled
- Compact size
- John Deere electronic engine controls
- Additional features
  - Glow plugs
  - Gear-driven auxiliary drives
  - 500-hour oil change
  - Replaceable wet-type cylinder liners
  - Oil-cooled pistons with hardened ring groove insert
  - Optional variable-speed fan drive improves fuel economy and reduces noise levels
  - Low-pressure fuel system with electrical transfer pump and “auto-prime” feature
  - R.H. and L.H. engine-mounted final fuel filters

# PowerTech PVX 4.5L, 6.8L, and 9.0L engines

EPA Interim Tier 4



\*For engines 130 kW (174 hp) and greater.

- Variable geometry turbocharger (VGT)
- Cooled exhaust gas recirculation (EGR)
- Exhaust filters

For more information and to see a full list of PowerTech PVX generator-set engine options, please visit [JohnDeere.com/gendrivePVX](http://JohnDeere.com/gendrivePVX).

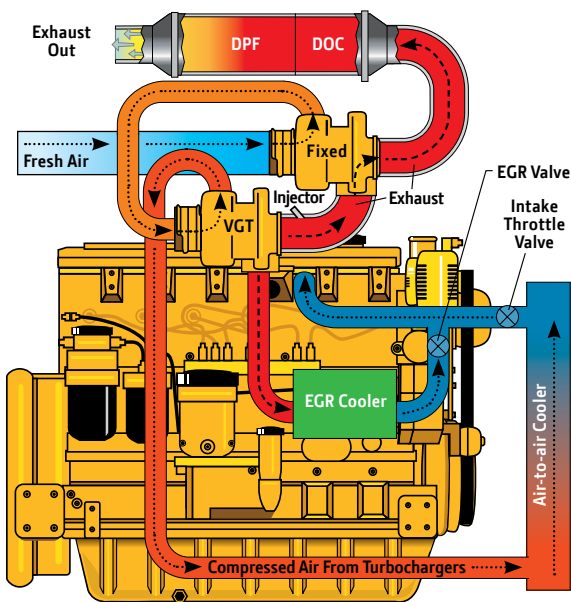


- High-pressure common-rail (HPCR) and engine control unit (ECU)
- 4-valve cylinder head
- Air-to-air aftercooled
- Compact size
- John Deere electronic engine controls
- Additional features\*
  - Glow plugs (4.5L and 6.8L)
  - Gear-driven auxiliary drives
  - Gear-driven water pump (9.0L)
  - 500-hour oil change
  - Replaceable wet-type cylinder liners
  - Directed top-liner cooling (9.0L)
  - Single-piece low-friction steel piston with integrated oil cooled gallery (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

\*Available on all PowerTech PVX engines unless noted

# PowerTech PSX 6.8L, 9.0L, and 13.5L engines

EPA Interim Tier 4



- Series turbochargers
- Cooled exhaust gas recirculation (EGR)
- Exhaust filters

For more information and to see a full list of PowerTech PSX generator-set engine options, please visit [JohnDeere.com/gendrivePSX](http://JohnDeere.com/gendrivePSX).

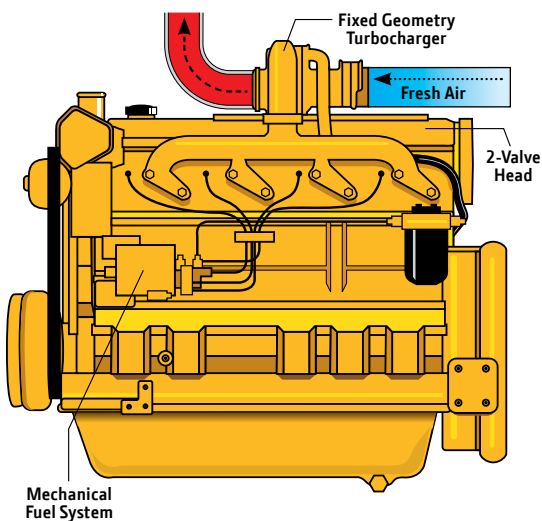
- High-pressure common-rail (HPCR)  
(6.8L and 9.0L)
- Engine control unit (ECU)
- Electronic unit injector (EUI) (13.5L)
- 4-valve cylinder head
- Air-to-air aftercooled
- Compact size
- John Deere electronic engine controls
- Additional features\*
  - Glow plugs (6.8L)
  - Gear-driven auxiliary drives
  - Gear-driven water pump (9.0L and 13.5L)
  - 500-hour oil change
  - Replaceable wet-type cylinder liners
  - Directed top-liner cooling (9.0L and 13.5L)
  - Single-piece low-friction steel piston with integrated oil-cooled gallery (9.0L and 13.5L)
  - Optional variable-speed fan drive improves fuel economy and reduces noise levels
  - Low-pressure fuel system with electrical transfer pump and “auto-prime” feature

\*Available on all PowerTech PSX engines unless noted

# PowerTech M

## 2.9L and 4.5L engines

EPA Interim Tier 4 and EPA Tier 3/EU Stage III A



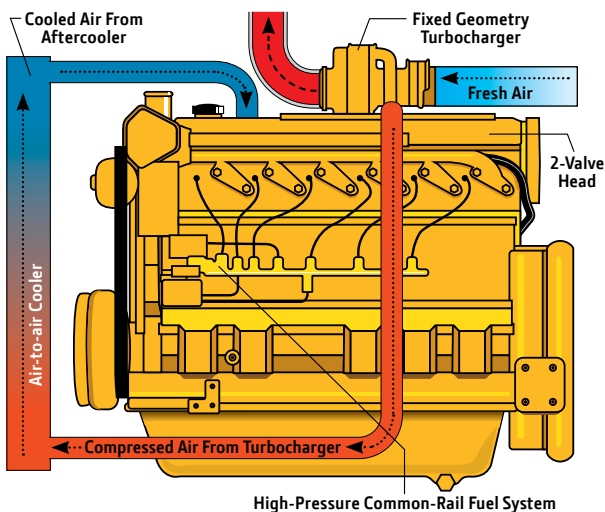
For more information and to see a full list of PowerTech PTM generator-set engine options, please visit [JohnDeere.com/gendrivePTM](http://JohnDeere.com/gendrivePTM).

- Fixed geometry turbocharger
- Turbocharged
- Mechanical rotary pump
- 2-valve cylinder head
  - Cross-flow design
- Air-to-air aftercooled
- Compact size
- Additional features
  - Glow plugs (4.5L)
  - Gear-driven auxiliary drives
  - 500-hour oil change
  - Replaceable wet-type cylinder liners
  - Oil-cooled pistons with hardened ring groove insert
  - Forged-steel connecting rods

# PowerTech E

## 4.5L, 6.8L, 9.0L, and 13.5L\* engines

EPA Tier 3/EU Stage III A



\*13.5L engines are EPA Tier 3 compliant only.

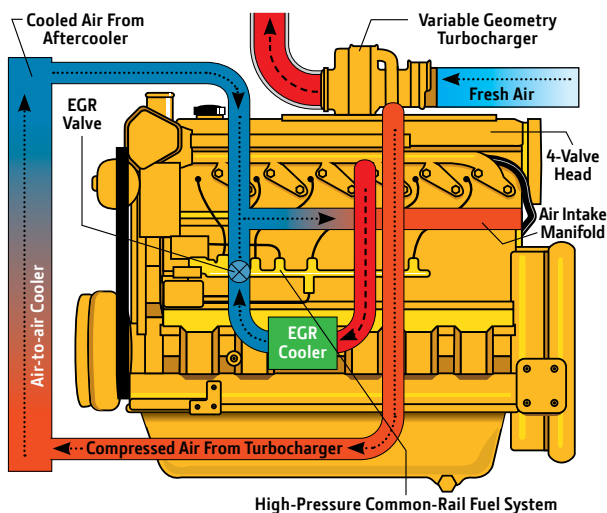
For more information and to see a full list of PowerTech PTE generator-set engine options, please visit [JohnDeere.com/gendrivePTE](http://JohnDeere.com/gendrivePTE).

- Fixed geometry turbocharger
- High-pressure common-rail (HPCR) and engine control unit (ECU)
- Electronic unit injector (13.5L)
- 2-valve cylinder head  
Cross-flow design
- 4-valve cylinder head (9.0L and 13.5L)
- Air-to-air aftercooled
- Compact size
- John Deere electronic engine controls
- Additional features
  - Gear-driven auxiliary drives
  - Gear-driven water pump (9.0L and 13.5L)
  - 500-hour oil change
  - Replaceable wet-type cylinder liners
  - Directed top-liner cooling (9.0L and 13.5L)
  - Single-piece low-friction steel piston with integrated oil-cooled gallery (9.0L and 13.5L)
  - Low-pressure fuel system with electrical transfer pump and “auto-prime” feature

# PowerTech Plus

## 4.5L, 6.8L, 9.0L, and 13.5L engines

EPA Tier 3



- Variable geometry turbocharger (VGT)
- Cooled exhaust gas recirculation (EGR)

For more information and to see a full list of PowerTech PTP generator-set engine options, please visit [JohnDeere.com/gendrivePTP](http://JohnDeere.com/gendrivePTP).



- High-pressure common-rail (HPCR) and engine control unit (ECU) (4.5L and 6.8L)
- Electronic unit injector (EUI) and engine control unit (ECU) (13.5L)
- 4-valve cylinder head
- Air-to-air aftercooled
- Compact size
- John Deere electronic engine controls
- Additional features
  - Glow plugs (4.5L and 6.8L)
  - Gear-driven auxiliary drives
  - Gear-driven water pump (9.0L and 13.5L)
  - 500-hour oil change
  - Replaceable wet-type cylinder liners
  - Directed top-liner cooling (9.0L and 13.5L)
  - Single-piece low-friction steel piston with integrated oil cooled gallery (13.5L)
  - Low-pressure fuel system with electrical transfer pump and “auto-prime” feature

# Definitions

**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 percent) to provide 100 percent meet-or-exceed performance for assembled standby generator sets.



# Conversions

## Generator drive rating (kWe)

$$\text{kWe} = [\text{Engine power (kW)} - \text{Fan power loss (kW)}] \times \text{Generator efficiency}$$

Note: Marine generator sets do not have fan power loss

## Power factor (PF)

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

PF constant = 0.80

## Formulas

$$\text{(Standby power, kWe)} = \text{(Prime power, kWe)} * \text{(110\% Overload capacity)}$$

$$\text{kWe rating}/.8 = \text{kVA rating}$$

$$\text{Newton-meter} = \text{lb-ft} \times 1.356$$

$$\text{Newton} = \text{lb force} \times 4.448$$

$$\text{Meter} = \text{ft} \times 0.3048$$

$$\text{Millimeter} = \text{in} \times 25.4$$

$$\text{Kilogram} = \text{lb} \times 0.454$$

$$\text{Liter} = \text{gallon} \times 3.785$$

$$\text{Liter} = \text{cu in} \times 0.01639$$

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

$$\text{Kilowatt} = \text{hp} \times 0.746$$

$$\text{(Kilowatt} = \frac{\text{(volts} \times \text{amps)}}{1000})$$

$$\text{Celsius} = (\text{F}-32) \times 0.556$$

# Customer support

With John Deere, you never have far to go to find expert assistance and advice. The more than 4,000 service locations throughout the world give you peace of mind that you can get service when and where you need it.

We have centralized parts warehouses in the United States and Europe, plus numerous worldwide depots that employ overnight parts shipping — so you'll never have to wait long for parts.

In addition, John Deere service personnel are highly trained technicians who stay on top of changing engine technologies and service techniques.

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JOHN DEERE

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