

Generator Drive Applications

Tier 3/Stage III A Engines



JOHN DEERE

Engines for emergency standby applications



Power Meets Progress



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.



Engines for EPA Tier 3 and EU Stage III A applications

John Deere offers a complete range of Tier 3/Stage III A generator drive engines for emergency standby applications. These mechanical and electronic engines provide reliable, compact power, with low installation costs. Non-emissions certified engines are also available for non-regulated markets.

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

Node kVA (kWe) standby	Engine name	Type	Engine model	Speed	Standby ratings			Prime ratings			Generator efficiency	Fan power
				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
440 (350)	E 13.5L	6 cyl.	6135HFG84	1800	401	44	358	-	-	-	93	16
440 (350)	Plus 13.5L	6 cyl.	6135HF485	1800	401	441	352	365	399	319	93	22
500 (400)	E 13.5L	6 cyl.	6135HFG84	1800	460	513	411	-	-	-	93	18.4
500 (400)	Plus 13.5L	6 cyl.	6135HF485	1800	460	505	404	419	458	366	93	25.3
620 (500)	E 13.5L	6 cyl.	6135HFG75	1800	563	628	503	-	-	-	93	22.5

Engines for EU Stage III A and EPA Tier 3 applications

Node 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†	1500	31	33	27	28	30	24	90	2	■	■
					1800	35	37	30	32	34	27	90	3.4		
40	M 2.9L	3 cyl.	3029HFG89†	3029HFU89†	1500	43	46	37	39	42	33	90	2.2	■	■
					1800	46	49	39	42	45	36	90	2.2		
60	M 4.5L	4 cyl.	4045HFG81	4045HFU81	1500	61	65	52	56	59	47	90	9.1	■	■
					1800	65	69	56	59	63	50	90	15.3		
80	E 4.5L	4 cyl.	4045HFG82	4045HFU82	1500	83	89	71	76	80	64	90	9.1	■	■
					1800	86	92	74	78	83	67	90	15.3		
100	E 4.5L	4 cyl.	4045HFG82	4045HFU82	1500	103	113	90	94	102	81	92	9.1	■	■
					1800	106	116	93	96	105	84	92	15.3		
120	E 4.5L	4 cyl.	4045HFG82	4045HFU82	1500	123	134	108	112	122	97	92	5.2	■	■
					1800	126	138	110	115	125	100	92	9.1		
150	E 6.8L	6 cyl.	6068HFG82	6068HFU82	1500	153	167	134	139	151	121	92	13.1	■	■
					1800	156	170	136	142	154	123	92	22.5		
200	E 6.8L	6 cyl.	6068HFG82	6068HFU82	1500	202	223	178	184	202	162	93	14.3	■	■
					1800	212	234	187	193	212	170	93	24.7		
250	E 9.0L	6 cyl.	6090HFG84	6090HFU84	1500	253	279	224	230	253	202	93	17	■	■
					1800	258	285	228	235	258	206	93	29.4		
300	E 9.0L	6 cyl.	6090HFG84	6090HFU84	1500	304	336	269	277	304	243	93	17	■	■
					1800	315	348	278	287	315	252	93	29.4		

*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.

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 offers electronic engines with added control and performance.

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

Heavy-duty, oversized components and wet-type cylinder liners provide long engine life.

John Deere engines are designed for rugged applications.



Extreme conditions

John Deere engines are built to operate in hot and dry, subzero, and humid climates as well as high altitudes. The engine control unit (ECU) monitors and protects engine components in these extreme conditions.

In regions where fuel quality may vary, John Deere protects the engine with two-stage fuel filtration and water detection.



Efficient operation



Life cycle costs

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

Easy integration



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.



Configurability

With multiple parts options, OEMs may have to do less modification of their gen-sets to integrate John Deere engines. This configurability saves development costs and reduces delivery time to market.

Variable-speed fan options are available.

With multiple fan heights and speed ratios, you can build gen-sets for tight places and quiet operation.

Single-side service points make installation and maintenance easy.





Always at your side

Warranty support when you need it

John Deere provides one of the best warranties in the business. Our 2-year/2,000-hour standard warranty applies not only to the new OEM engine but also to John Deere parts and accessories added by a John Deere engine distributor.*

Register your John Deere OEM engine and enable your John Deere dealer or engine distributor to respond should you need a warrantable repair.† Registering your engine at JohnDeere.com/OEMWarranty gives us the information needed to stock the right service parts, maintenance products, and servicing tools.



** When sold by John Deere, its authorized dealers and distributors, and delivered to the first retail purchaser.*

† See specific OEM product warranty language for applicable terms and conditions. Refer to the John Deere new engine warranty for complete warranty coverage details.

Note: the 2-year/2,000-hour standard warranty and OEM engine registration may not be available in all countries.





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