FPT
POWERTRAIN TECHNOLOGIES

POWER GENERATION LINE-UP

Our efficiency.
Your edge.

Stage V switchable Tier 4 Final

G-Drive Engines

Engine Model	Cylinder Arrangement	Air Intake	Injection System	Displacement Liters	Emission	Exhaust System	Exhaust System
F34TEVP02.00	4L/TC	ECR	3,4	Stage V / Tier 4F	EGR+DOC+DPF	DOC+DPF
F34TEVP04.00	4L/TC	ECR	3,4	Stage V / Tier 4F	EGR+DOC+DPF	DOC+DPF
F34TEVP01.00	4L/TAA	ECR	3,4	Stage V / Tier 4F	EGR+DOC+DPF	DOC+DPF
F36ETVP03.A62	4L/TAA	ECR	3,6	Stage V / Tier 4F	EGR+DOC+ DPF+SCR+CUC	HI-eSCR2
F36ETVP03.A85	4L/TAA	ECR	3,6	Stage V / Tier 4F	EGR+DOC+ DPF+SCR+CUC	HI-eSCR2
F36ETVP03.A94	4L/TAA	ECR	3,6	Stage V / Tier 4F	EGR+DOC+ DPF+SCR+CUC	HI-eSCR2
N67TEVP06.00	6L/TAA	ECR	6,7	Stage V / Tier 4F	DOC+SCRoF+CUC	HI-eSCR2
N67TEVP05.00	6L/TAA	ECR	6,7	Stage V / Tier 4F	DOC+SCRoF+CUC	HI-eSCR2
C87TEVP01.00	6L/TAA	ECR	8,7	Stage V / Tier 4F	DOC+SCRoF+CUC	HI-eSCR2
C87TEVP04.00	6L/TAA	ECR	8,7	Stage V / Tier 4F	DOC+SCRoF+CUC	HI-eSCR2
C13ETVP03.A363	6L/TAA	ECR	12,9	Stage V / Tier 4F	DOC+SCRoF+CUC	HI-eSCR2
C13ETVP03.A395	6L/TAA	ECR	12,9	Stage V / Tier 4F	DOC+SCRoF+CUC	HI-eSCR2

50 Hz / 1500 rpm						60 Hz / 1800 rpm						Typical Generator eff.	1500/1800 rpm
Stand-by Power			Prime Power			Stand-by Power			Prime Power				
kWm (net)	kWe	kVA	kWm (net)	kWe	kVA	kWm (net)	kWe	kVA	kWm (net)	kWe	kVA		
37	32	40	33	29	37	39	34	42	35	30	38	88%	●
45	40	50	41	36	45	49	43	53	44	39	49	88%	●
54	48	60	54	48	59	54	47	59	54	47	59	88%	●
65	59	73	59	53	67	72	66	82	65	59	74	91%	●
90	82	102	82	74	93	98	89	111	88	80	100	91%	●
91	84	105	91	83	104	99	92	115	99	91	114	92%	●
145	133	167	136	125	156	167	154	192	151	139	174	92%	●
195	181	227	176	164	205	222	206	258	201	187	234	93%	●
257	239	299	233	217	271	285	265	331	258	240	300	93%	●
287	267	334	261	243	303	327	304	380	296	275	344	93%	●
346	322	402	313	291	363	387	360	450	350	325	406	93%	●
378	355	444	342	321	402	426	400	501	385	362	452	94%	●

Legend

Cylinder Arrangement
L In line

Air Intake
TAA Turbocharged Aftercooler
TC Turbocharged

Other Notes
kVA kiloVolt Ampere calculations based on a 0.8 power factor

Exhaust System
DOC Diesel Oxidation Catalyst
DPF Diesel Particulate Filter
HI-eSCR2 FPT Industrial's patented system

● 1500 rpm / 1800 rpm switchable engine
○ Not Switchable Engine

Injection System
M Mechanical
ECR Electronic Common Rail
EUI Electronic Unit Injector

Emission Regulation
St.V/T4F Stage V switchable Tier 4 Final

* No overload admitted

Engine Technical Identification

N45SM1F:

F Engine Family:
S8000 = S8000
F = F5
N = NEF
C = CURSOR

45 Displacement in liters:
45 = 4,5 liters

S Aspiration:
A = Naturally aspirated
S = Turbocharged
T = Turbocharged Aftercooler

M Injection system:
M = Mechanical
E = Electronic

1 Rating model

F Emission regulation:
F = Previously EU Stage IIIA
X = Tier 3
Z = Tier 4 Final
A = Previously EU Stage II

Tier 4 Final

Bare Engines

Engine Model	Cylinder Arrangement Air Intake	Injection System	Displacement Liters	Emission	Exhaust System
F34ESZW01.A37	4L/TC	ECR	3,4	Tier 4 Final	DOC+PMcat
F34ESZW01.S5A00	4L/TC	ECR	3,4	Tier 4 Final	DOC+PMcat
F34SE1W.S5S4	4L/TAA	ECR	3,4	Tier 4 Final	HI-eSCR
F34SE1W.S5S2	4L/TAA	ECR	3,4	Tier 4 Final	HI-eSCR
N45ENTZW70	4L/TAA	ECR	4,5	Tier 4 Final	HI-eSCR
N45ENTZW69	4L/TAA	ECR	4,5	Tier 4 Final	HI-eSCR
N67ENTZW70	6L/TAA	ECR	6,7	Tier 4 Final	HI-eSCR
N67ENTZW71	6L/TAA	ECR	6,7	Tier 4 Final	HI-eSCR
N67ENTZW68	6L/TAA	ECR	6,7	Tier 4 Final	HI-eSCR
N67ENTZW69	6L/TAA	ECR	6,7	Tier 4 Final	HI-eSCR
CURSOR87ENTZW61	6L/TAA	ECR	8,7	Tier 4 Final	HI-eSCR
CURSOR87ENTZW62	6L/TAA	ECR	8,7	Tier 4 Final	HI-eSCR
CURSOR87ENTZW68	6L/TAA	ECR	8,7	Tier 4 Final	HI-eSCR
CURSOR87ENTZW69	6L/TAA	ECR	8,7	Tier 4 Final	HI-eSCR
CURSOR13ENTZW61	6L/TAA	ECR	12,9	Tier 4 Final	HI-eSCR
CURSOR13ENTZW68	6L/TAA	ECR	12,9	Tier 4 Final	HI-eSCR
CURSOR13ENTZW69	6L/TAA	ECR	12,9	Tier 4 Final	HI-eSCR

Legend

Cylinder Arrangement
L In line

Air Intake
TAA Turbocharged Aftercooler
TC Turbocharged

Exhaust System
DOC Diesel Oxidation Catalyst
PMcat Particulate Matter Catalyst
HI-eSCR2 FPT Industrial's patented system

Injection System
ECR Electronic Common Rail

Emission Regulation
T4F Tier 4 Final

Other Notes

kVA kiloVolt Ampere calculations based on a 0.8 power factor

● 1500 rpm / 1800 rpm switchable engine
○ Not Switchable Engine

1 Available in G-drive configuration

60 Hz / 1800 rpm

Stand-by Power			Prime Power			Typical Generator eff.
kWm (net)	kWe	kVA	kWm (net)	kWe	kVA	
37	33	42	33	30	38	91%
55	48	60	50	44	55	88%
68	63	78	62	57	71	92%
88	81	101	80	74	92	92%
84	78	97	76	70	88	93%
122	113	142	111	104	129	93%
142	132	165	129	120	150	93%
160	148	185	145	134	168	93%
187	173	217	169	157	196	93%
215	199	249	195	181	226	93%
250	233	291	227	211	264	93%
272	253	316	247	230	287	93%
299	278	348	271	252	315	93%
320	298	372	290	270	337	93%
342	321	402	311	292	365	94%
365	343	429	331	311	389	94%
409	384	481	371	349	436	94%

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45 = 4,5 liters

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T = Turbocharged Aftercooler

M Injection system:
M = Mechanical
E = Electronic

1 Rating model

F Emission regulation:
F = Previously EU Stage IIIA
X = Tier 3
Z = Tier 4 Final
A = Previously EU Stage II

Tier 3

G-Drive Engines

Engine Model	Cylinder Arrangement Air intake Exhaust System	Injection System	Displacement Liters	Emission	50 Hz / 1500 rpm Stand-by Power kWm (net)	50 Hz / 1500 rpm Stand-by Power kWe	50 Hz / 1500 rpm Stand-by Power kVA	50 Hz / 1500 rpm Prime Power kWm (net)	50 Hz / 1500 rpm Prime Power kWe	50 Hz / 1500 rpm Prime Power kVA	60 Hz / 1800 rpm Stand-by Power kWm (net)	60 Hz / 1800 rpm Stand-by Power kWe	60 Hz / 1800 rpm Stand-by Power kVA	60 Hz / 1800 rpm Prime Power kWm (net)	60 Hz / 1800 rpm Prime Power kWe	60 Hz / 1800 rpm Prime Power kVA	Typical Generator eff.	1500/1800 rpm Switchable
NEF45SM1X	4L/TC/I-EGR	M	4,5	Tier 3	-	-	-	-	-	-	57	52	65	52	47	59	91%	○
NEF45SM2X	4L/TC/I-EGR	M	4,5	Tier 3	-	-	-	-	-	-	67	61	76	60,8	55	69	91%	○
NEF45TE1P	4L/TAA/I-EGR	ECR	4,5	UR² / Tier 3	80	73	91	73	66	83	87	79	99	79	72	90	91%	●
NEF45TM2X	4L/TAA/I-EGR	M	4,5	Tier 3	-	-	-	-	-	-	95	88	110	86,3	79	99	92%	○
NEF45TE2P	4L/TAA/I-EGR	ECR	4,5	UR² / Tier 3	98	91	113	89	82	103	122	112	141	111	102	128	92%	●
NEF67TM1X	6L/TAA/I-EGR	M	6,7	Tier 3	-	-	-	-	-	-	141	129	162	128	117	147	92%	○
NEF67TE1PV	6L/TAA/I-EGR	ECR	6,7	UR² / Tier 3	145	133	167	131	121	151	156	144	180	141	130	163	92%	●
NEF67TE2PV	6L/TAA/I-EGR	ECR	6,7	UR² / Tier 3	165	153	192	150	140	174	201	187	234	182	170	212	93%	●
NEF67TE3PV	6L/TAA/I-EGR	ECR	6,7	UR² / Tier 3	195	181	227	177	164	206	211	197	246	191	178	223	93%	●
CURSOR87TE3F	6L/TAA/I-EGR	ECR	8,7	UR² / Tier 3	256	238	298	230	214	267	280	260	326	251	233	292	93%	●
CURSOR87TE1PV	6L/TAA/I-EGR	ECR	8,7	UR² / Tier 3	288	268	335	261	243	303	321	299	373	291	271	338	93%	●
CURSOR13TE2F	6L/TAA/I-EGR	EUI	12,9	UR² / Tier 3	378	359	449	342	325	406	334	317	397	301	286	357	95%	●
CURSOR13TE3X	6L/TAA/I-EGR	EUI	12,9	Tier 3	-	-	-	-	-	-	371	349	436	336	316	395	94%	●

Legend

Cylinder Arrangement
L In line

Air Intake
TAA Turbocharged Aftercooler
TC Turbocharged

Exhaust System
I-EGR Internal Exhaust Gas Recirculation

Emission Regulation
UR² Previously EU Stage IIIA

Injection System
M Mechanical
ECR Electronic Common Rail
EUI Electronic Unit Injector

Other Notes
kVA kiloVolt Ampere calculations based on a 0.8 power factor
● 1500 rpm / 1800 rpm switchable engine
○ Not Switchable Engine

Engine Technical Identification

N45SM1F:

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S8000 = S8000
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45 Displacement in liters:
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T = Turbocharged Aftercooler

M Injection system:
M = Mechanical
E = Electronic

1 Rating model

F Emission regulation:
F = Previously EU Stage IIIA
X = Tier 3
Z = Tier 4 Final
A = Previously EU Stage II

Not Regulated Emissions

G-Drive Engines

Engine Model	Cylinder Arrangement Air intake Exhaust System	Injection System	Displacement Liters	RoHS2 Compliant (Y/N)	Emission	50 Hz / 1500 rpm Stand-by Power kWm (net)	50 Hz / 1500 rpm Stand-by Power kWe	50 Hz / 1500 rpm Stand-by Power kVA	50 Hz / 1500 rpm Prime Power kWm (net)	50 Hz / 1500 rpm Prime Power kWe	50 Hz / 1500 rpm Prime Power kVA	60 Hz / 1800 rpm Stand-by Power kWm (net)	60 Hz / 1800 rpm Stand-by Power kWe	60 Hz / 1800 rpm Stand-by Power kVA	60 Hz / 1800 rpm Prime Power kWm (net)	60 Hz / 1800 rpm Prime Power kWe	60 Hz / 1800 rpm Prime Power kVA	Typical Generator eff. 1500/1800 rpm	Switchable
S8000AM1[3]	3L/NA	M	2,9	N	UR	31	27	34	28	24	30	32	28	36	29	26	32	88%	●
NEF45AM2	4L/NA	M	4,5	Y	UR	51	45	56	45	41	51	-	-	-	-	-	-	88%	○
NEF45SM1A[3]	4L/TC	M	4,5	Y	UR	59	54	67	53	49	61	65	59	74	59	54	67	91%	●
NEF45SM1F	4L/TC/I-EGR	M	4,5	Y	UR2	60	55	68	55	50	63	-	-	-	-	-	-	91%	○
NEF45TE1P	4L/TAA/I-EGR	ECR	4,5	Y	UR[2] / Tier 3	80	73	91	73	66	83	87	79	99	79	72	90	91%	●
NEF45SM3	4L/TC	M	4,5	Y	UR	81	75	93	73	67	84	87	80	100	79	72	91	92%	●
NEF45TM2A[3]	4L/TAA	M	4,5	Y	UR	96	89	111	88	81	101	107	99	123	98	90	112	92%	●
NEF45TE2P	4L/TAA/I-EGR	ECR	4,5	Y	UR[2] / Tier 3	98	91	113	89	82	103	122	112	141	111	102	128	92%	●
NEF45TM3[3]	4L/TAA	M	4,5	Y	UR	118	109	136	107	98	123	122	112	140	111	102	128	92%	●
NEF67SM1	6L/TC	M	6,7	Y	UR	121	111	139	110	101	127	138	127	159	126	115	144	92%	●
NEF67TE1PV	6L/TAA/I-EGR	ECR	6,7	Y	UR[2] / Tier 3	145	133	167	131	121	151	156	144	180	141	130	163	92%	●
NEF67TM3A[3]	6L/TAA	M	6,7	Y	UR	152	140	175	138	127	158	165	152	190	149	137	172	92%	●
NEF67TM4	6L/TAA	M	6,7	Y	UR	165	152	190	150	138	172	-	-	-	-	-	-	92%	○
NEF67TE2PV	6L/TAA/I-EGR	ECR	6,7	Y	UR[2] / Tier 3	165	153	192	150	140	174	201	187	234	182	170	212	93%	●
NEF67TM7	6L/TAA	M	6,7	Y	UR	195	179	224	177	163	204	195	179	224	176	162	202	92%	●
NEF67TE3PV	6L/TAA/I-EGR	ECR	6,7	Y	UR[2] / Tier 3	195	181	227	177	164	206	211	197	246	191	178	223	93%	●
NEF67TE8P	6L/TAA	ECR	6,7	Y	UR	239	219	274	216	199	248	254	233	292	230	211	264	92%	●
CURSOR87TE3F	6L/TAA/I-EGR	ECR	8,7	N	UR[2] / Tier 3	256	238	298	230	214	267	280	260	326	251	233	292	93%	●
CURSOR87TE1PV	6L/TAA/I-EGR	ECR	8,7	Y	UR[2] / Tier 3	288	268	335	261	243	303	321	299	373	291	271	338	93%	●
CURSOR87TE4[3]	6L/TAA	ECR	8,7	N	UR	299	278	348	275	256	320	333	310	387	306	285	356	93%	●
CURSOR13TE2A[3]	6L/TAA	EUI	12,9	N	UR	330	307	384	300	279	349	360	335	419	327	304	380	93%	●
CURSOR13TE2F	6L/TAA/I-EGR	EUI	12,9	N*	UR[2] / Tier 3	378	359	449	342	325	406	334	317	397	301	286	357	95%	●
CURSOR13TE3A[3]	6L/TAA	EUI	12,9	N*	UR	387	364	455	352	331	414	398	374	468	360	338	423	94%	●
CURSOR13TE6W	6L/TAA	ECR	12,9	N*	UR	414	393	492	371	352	441	454	431	539	400	380	475	95%	●
CURSOR13TE7W	6L/TAA	ECR	12,9	N*	UR	459	436	545	425	404	505	474	450	563	428	407	508	95%	●
CURSOR16TE1W[3]	6L/TAA	ECR	15,9	N*	UR	557	529	661	505	480	600	578	549	686	523	497	621	95%	●

Legend

Cylinder Arrangement
L In line

Air Intake
NA Naturally Aspirated
TAA Turbocharged Aftercooler
TC Turbocharged

Exhaust System
I-EGR Internal Exhaust Gas Recirculation

Emission Regulation
UR Unregulated
UR[1] Previously EU Stage II
UR[2] Previously EU Stage IIIA

Injection System
M Mechanical
ECR Electronic Common Rail
EUI Electronic Unit Injector

Other Notes
kVA kiloVolt Ampere calculations based on a 0.8 power factor
● 1500 rpm / 1800 rpm switchable engine
○ Not Switchable Engine
3 TÜV measured based on TA-Luft standards

Engine Technical Identification

N45SM1F:

F Engine Family:
S8000 = S8000
F = F5
N = NEF
C = CURSOR

45 Displacement in liters:
45 = 4,5 liters

S Aspiration:
A = Naturally aspirated
S = Turbocharged
T = Turbocharged Aftercooler

M Injection system:
M = Mechanical
E = Electronic

1 Rating model

F Emission regulation:
F = Previously EU Stage IIIA
X = Tier 3
Z = Tier 4 Final
A = Previously EU Stage II

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