



POWER GENERATION

**Our efficiency.
Your edge.**



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THE ENERGY OF INNOVATION

You need power, delivered quickly and reliably. FPT Industrial is there to answer your needs. Our new range of state-of-the-art engines covers all power generation applications.

Sustainability drives product development. As the standards for diesel engines grow ever more stringent, a constant decrease in emissions becomes a key benchmark for improvement.

To fulfill market requirements, FPT Industrial has developed different engine ranges. All comply with the most demanding standards. Our products have functional layouts, hi-tech contents and carefully selected, top-quality components.

Superior Technology & Outstanding Advantages

Performance

Excellent transient load response.
High performance guaranteed in all conditions. High engine power density.

Respect for the Environment

Compliance with the most stringent Emissions legislations.
Low noise levels.

Running Costs Reduction

Low oil and fuel consumption.
Best in class maintenance intervals.
Low running costs in continuous operating power.

Flexibility

Availability of a wide range of options to create tailor-made products.
Compact engine layout. Availability of cold starting accessories.

Our reliable power generation systems improve efficiency and boost business performance.



POWER GENERATION LINE-UP

G-Drive Engines

NOT REGULATED EMISSIONS

Model	Cylinder Arrangement Air Intake Exhaust System	Injection System	Displacement Liters	Emissions
S8000AM1 ³	3L/NA	M	2,9	UR
N45AM1A ³	4L/NA	M	4,5	UR ¹
N45AM2	4L/NA	M	4,5	UR
N45SM1A ³	4L/TC	M	4,5	UR ¹
N45SM3	4L/TC	M	4,5	UR
N45TM2A ³	4L/TAA	M	4,5	UR ¹
N45TM3 ³	4L/TAA	M	4,5	UR
N67SM1	6L/TC	M	6,7	UR
N67TM2A ³	6L/TAA	M	6,7	UR ¹
N67TM3A ³	6L/TAA	M	6,7	UR ¹
N67TM4	6L/TAA	M	6,7	UR
N67TE2A ²	6L/TAA	ECR	6,7	UR ¹
N67TM7	6L/TAA	M	6,7	UR
N67TE8W ³	6L/TAA	ECR	6,7	UR
CURSOR87TE4 ³	6L/TAA	ECR	8,7	UR
CURSOR13TE2A ³	6L/TAA	EUI	12,9	UR ¹
CURSOR13TE3A ³	6L/TAA	EUI	12,9	UR ¹
CURSOR13TE6W	6L/TAA	ECR	12,9	UR
CURSOR13TE7W	6L/TAA	ECR	12,9	UR
CURSOR16TE1W ³	6L/TAA	ECR	15,9	UR

50 Hz / 1500 rpm						60 Hz / 1800 rpm						Typical Generator eff.	1500/1800 rpm Switchable
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		
31	27	34	28	25	31	34	30	37	31	27	34	88%	●
46	40	51	42	37	46	-	-	-	-	-	-	88%	○
50	44	55	45	40	50	-	-	-	-	-	-	88%	○
59	54	67	53	48	60	65	59	74	59	54	67	91%	●
81	74	92	73	66	83	87	79	99	79	72	90	91%	●
96	88	110	88	81	101	107	98	123	98	90	113	92%	●
118	109	136	107	98	123	122	112	140	111	102	128	92%	●
121	111	139	110	101	127	138	127	159	125	115	144	92%	●
126	116	145	114	105	131	141	130	162	128	118	147	92%	●
152	140	175	138	127	159	165	152	190	149	137	171	92%	●
165	152	190	150	138	173	-	-	-	-	-	-	92%	○
193	179	224	175	163	203	215	200	250	195	181	227	93%	●
195	181	227	177	165	206	195	181	227	177	165	206	93%	●
238	221	277	216	201	251	253	235	294	230	214	267	93%	●
299	278	348	275	256	320	333	310	387	306	285	356	93%	●
330	308	384	300	280	350	360	336	419	327	305	381	93%	●
387	364	455	352	331	414	398	374	468	360	338	423	94%	●
414	395	494	374	357	446	454	433	541	400	382	477	95%	●
459	438	547	425	405	507	474	452	565	428	408	510	95%	●
557	529	661	505	480	600	578	549	686	523	497	621	95%	●

Legend

Arrangement

L In line

Air Intake

NA Naturally Aspirated
TAA Turbocharged Aftercooler
TC Turbocharged

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

Exhaust System

I-EGR Internal Exhaust Gas Recirculation

kVA kiloVolt Ampere calculations based on a 0.8 power factor
UR Unregulated
UR¹ Previously EU Stage II

Injection System

M Mechanical
ECR Electronic Common Rail
EUI Electronic Unit Injector

2 Complies to TA Luft (1986) regulations
3 TÜV measured based on TA-Luft standards

Identification Plate

N67E2F:

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

67 Displacement in liters
67 = 6,7 liters

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

E Injection system
M = Mechanical
E = Electronic

2 Rating model

F Emission regulation
F = Stage IIIA
X = Tier 3
Z = Tier 4 Final

A Previously EU Stage II



G-Drive Engines

REGULATED EMISSIONS

Model	Cylinder Arrangement Air Intake Exhaust System	Injection System	Displacement Liters	Emissions
F32SM1F	4L/TC/I-EGR	M	3,2	UR ²
N45SM1F	4L/TC/I-EGR	M	4,5	Stage IIIA
N45TE1F	4L/TAA/I-EGR	ECR	4,5	Stage IIIA / Tier 3
N45TE2F	4L/TAA/I-EGR	ECR	4,5	Stage IIIA / Tier 3
N67TM1F	6L/TAA/I-EGR	M	6,7	Stage IIIA
N67TE1F	6L/TAA/I-EGR	ECR	6,7	UR ² / Tier 3
N67TE2F	6L/TAA/I-EGR	ECR	6,7	UR ² / Tier 3
N67TE3F	6L/TAA/I-EGR	ECR	6,7	UR ² / Tier 3
CURS0R87TE3F	6L/TAA/I-EGR	ECR	8,7	UR ² / Tier 3
CURS0R87TE4F	6L/TAA/I-EGR	ECR	8,7	UR ² / Tier 3
CURS0R13TE1F	6L/TAA/I-EGR	EUI	12,9	UR ² / Tier 3
CURS0R13TE2F	6L/TAA/I-EGR	EUI	12,9	UR ² / Tier 3
F32SM1X	4L/TC/I-EGR	M	3,2	Tier 3
F32TM1X	4L/TAA/I-EGR	M	3,2	Tier 3
N45SM1X	4L/TC/I-EGR	M	4,5	Tier 3
N45SM2X	4L/TC/I-EGR	M	4,5	Tier 3
N45TM2X	4L/TAA/I-EGR	M	4,5	Tier 3
N67TM1X	6L/TAA/I-EGR	M	6,7	Tier 3
N67TE1X	6L/TAA/I-EGR	ECR	6,7	Tier 3
N67TE2X	6L/TAA/I-EGR	ECR	6,7	Tier 3
CURS0R13TE3X	6L/TAA/I-EGR	EUI	12,9	Tier 3

Legend

Arrangement
L In line

Air Intake
NA Naturally Aspirated
TAA Turbocharged Aftercooler
TC Turbocharged

- 1500 rpm / 1800 rpm Switchable Engine
- Not Switchable Engine

Exhaust System
I-EGR Internal Exhaust Gas Recirculation

kVA kiloVolt Ampere calculations based on a 0.8 power factor
UR Unregulated
UR¹ Previously EU Stage II
UR² Previously EU Stage IIIA

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

- 2 Complies to TA Luft (1986) regulations
- 3 TÜV measured based on TA-Luft standards

	50 Hz / 1500 rpm						60 Hz / 1800 rpm						Typical Generator eff.	1500/1800 rpm Switchable
	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		
	32	28	35	29	26	32	-	-	-	-	-	-	88%	○
	60	55	68	55	50	63	-	-	-	-	-	-	91%	○
	80	73	91	73	66	83	87	79	99	79	72	90	91%	●
	98	90	113	89	82	102	122	112	140	111	102	128	92%	●
	125	115	144	114	105	131	-	-	-	-	-	-	92%	○
	145	133	167	132	121	152	157	144	181	142	131	163	92%	●
	165	154	192	150	140	175	202	188	236	183	171	213	93%	●
	195	181	227	175	163	203	212	197	246	192	179	223	93%	●
	256	238	298	232	216	270	280	260	326	254	236	295	93%	●
	292	272	339	262	244	305	320	298	372	287	267	334	93%	●
	327	309	386	296	280	350	309	292	365	278	263	328	94%	●
	372	354	443	336	320	400	334	318	397	300	286	357	95%	●
	-	-	-	-	-	-	47	41	51	42	37	46	88%	○
	-	-	-	-	-	-	57	51	64	52	47	59	91%	○
	-	-	-	-	-	-	57	52	65	53	48	60	91%	○
	-	-	-	-	-	-	67	61	76	61	56	69	91%	○
	-	-	-	-	-	-	95	87	109	87	80	100	92%	○
	-	-	-	-	-	-	141	130	162	128	118	147	92%	○
	-	-	-	-	-	-	165	152	190	150	138	173	92%	○
	-	-	-	-	-	-	200	186	233	182	169	212	93%	○
	-	-	-	-	-	-	371	349	436	337	317	396	94%	○

Identification Plate

N67TE2F:

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

67 Displacement in liters
67 = 6,7 liters

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

E Injection system
M = Mechanical
E = Electronic

2 Rating model

F Emission regulation
F= Stage IIIA
X = Tier 3
Z = Tier 4 Final

A Previously EU Stage II



Bare Engines

REGULATED EMISSIONS

Model	Cylinder Arrangement Air intake Exhaust System	Injection system	Displacement Liters	Emissions
F34SNDZW055 ^{1 4}	4L/TC/EGR + DOC + PMcat	ECR	3,4	Tier 4 Final
N45ENTZW68 ¹	4L / TAA / DOC + SCR+CUC	ECR	4,5	Tier 4 Final
N45ENTZW69	4L / TAA / DOC + SCR+CUC	ECR	4,5	Tier 4 Final
N67ENTZW61 ¹	6L / TAA / DOC + SCR+CUC	ECR	6,7	Tier 4 Final
N67ENTZW62 ¹	6L / TAA / DOC + SCR+CUC	ECR	6,7	Tier 4 Final
N67ENTZW68	6L / TAA / DOC + SCR+CUC	ECR	6,7	Tier 4 Final
N67ENTZW69	6L / TAA / DOC + SCR+CUC	ECR	6,7	Tier 4 Final
CURS0R87ENTZW61	6L / TAA / DOC + SCR+CUC	ECR	8,7	Tier 4 Final
CURS0R87ENTZW62	6L / TAA / DOC + SCR+CUC	ECR	8,7	Tier 4 Final
CURS0R87ENTZW68	6L / TAA / DOC + SCR+CUC	ECR	8,7	Tier 4 Final
CURS0R87ENTZW69	6L / TAA / DOC + SCR+CUC	ECR	8,7	Tier 4 Final
CURS0R13ENTZW61	6L / TAA / DOC + SCR+CUC	ECR	12,9	Tier 4 Final
CURS0R13ENTZW68	6L / TAA / DOC + SCR+CUC	ECR	12,9	Tier 4 Final
CURS0R13ENTZW69	6L / TAA / DOC + SCR+CUC	ECR	12,9	Tier 4 Final

50 Hz / 1500 rpm							60 Hz / 1800 rpm							Typical Generator eff.	1500/1800 rpm Switchable
Stand-by Power			Prime Power				Stand-by Power			Prime Power					
kWm (gross)	kWe**	kVA**	kWm (gross)	kWe**	kVA**	kWm (gross)	kWe**	kVA**	kWm (gross)	kWe**	kVA**	kWm (gross)	kWe**		
-	-	-	-	-	-	54	48	60	49	43	54	92%	o		
-	-	-	-	-	-	85	78	97	77	70	88	93%	o		
-	-	-	-	-	-	126	116	145	115	106	132	93%	o		
-	-	-	-	-	-	145	129	161	132	116	145	93%	o		
-	-	-	-	-	-	167	149	186	152	135	169	93%	o		
-	-	-	-	-	-	195	175	219	177	158	198	93%	o		
-	-	-	-	-	-	223	200	251	203	182	227	93%	o		
-	-	-	-	-	-	260	233	291	236	210	263	93%	o		
-	-	-	-	-	-	282	253	316	256	229	286	93%	o		
-	-	-	-	-	-	309	281	351	281	255	318	94%	o		
-	-	-	-	-	-	330	301	376	300	273	341	94%	o		
-	-	-	-	-	-	353	324	404	321	294	368	94%	o		
-	-	-	-	-	-	380	350	438	345	318	397	95%	o		
-	-	-	-	-	-	424	391	488	385	355	443	95%	o		

Legend

Arrangement

L In line

Air Intake

NA Naturally Aspirated
TAA Turbocharged Aftercooler
TC Turbocharged

Exhaust System

I-EGR Internal Exhaust Gas Recirculation
DOC Diesel Oxidation Catalyst
SCR Selective Catalytic Reduction
CUC Clean-up Catalyst
PMcat Particulate Matter Catalyst

Injection System

M Mechanical
ECR Electronic Common Rail
EUI Electronic Unit Injector

kVA kiloVolt Ampere calculations based on a 0.8 power factor

UR Unregulated
UR¹ Previously EU Stage II

● 1500 rpm / 1800 rpm switchable engine

○ Not Switchable Engine
** Fan absorption: 1%-6%

¹ Preliminary data
⁴ Available H1 2019 in G-drive configuration

Identification Plate T4F Engines

N45ENTZW68:

N Engine Family
F= F5
N= NEF
CURSOR = CURSOR

67 Displacement in liters
45 = 4,5 liters

E Injection system
M = Mechanical
E = Electronic

N Crankcase
N = No structural
S = Structural

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

Z Emission regulation
F= Stage IIIA
X = Tier 3
Z = Tier 4 Final

W ECU type

6 Application

8 Rating model





G-DRIVE ENGINES

THE S8000 SERIES

From 31 to 34 kWm

Performance

The new S8000 delivers 4-cylinder performance with the compactness and lightness of a 3-cylinder engine.

Efficiency

& Productivity
Best-in-class load acceptance and frequency stability make S8000 the best choice for telecom applications.

Maintenance

Best-in-class oil service intervals at 600 hours contribute to enhanced uptime (30% longer).

Compactness

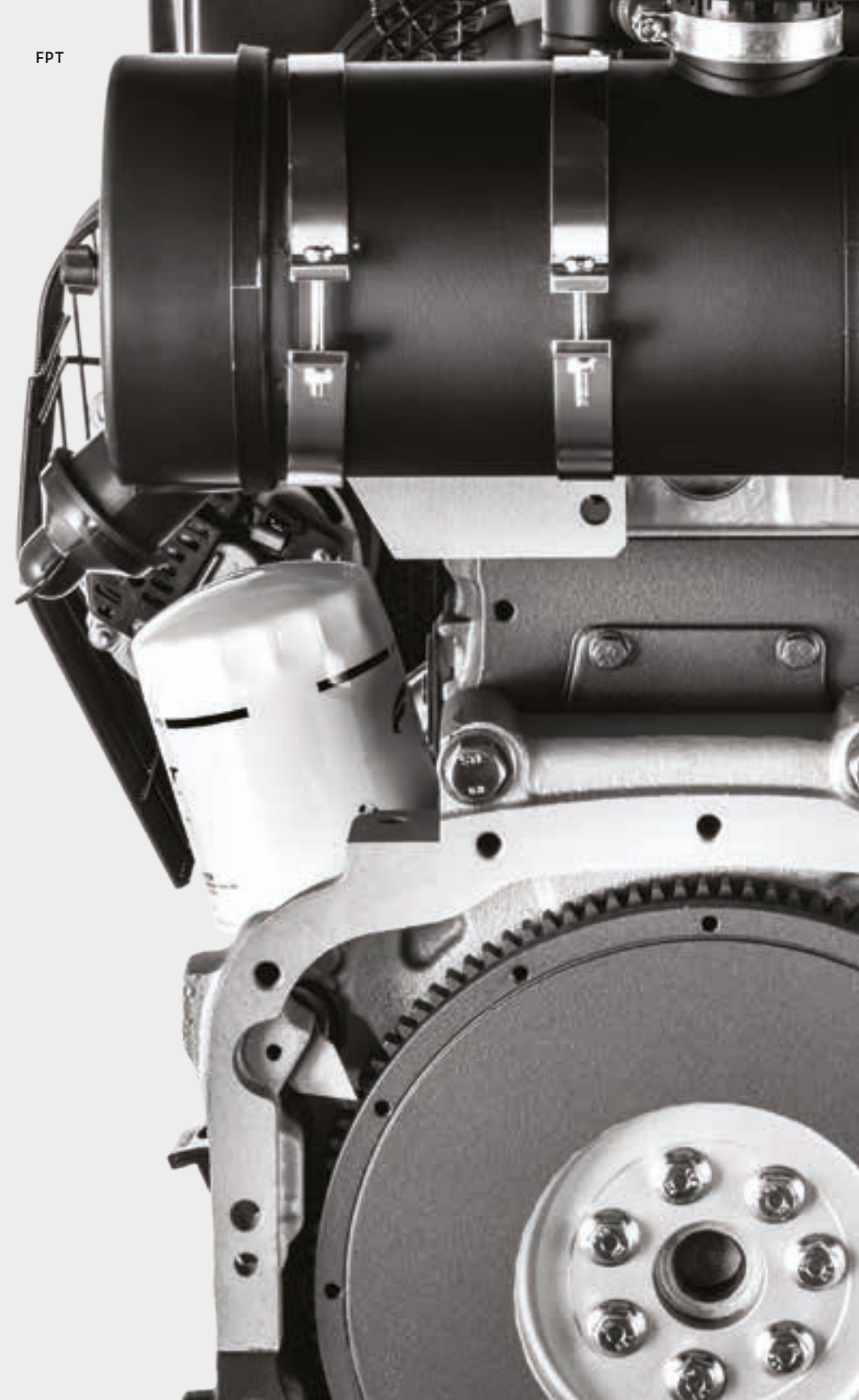
Low TCO, compactness and simplicity.



Our S8000 G-Drive range cuts down complexity. It is ideal for remote locations, bringing high power output at a lower cost of ownership.

Engineered to FPT Industrial's renowned reliability levels, the engine in this range also feature best-in-class maintenance intervals. It is been developed with customer needs in mind. It is designed for all emergency and prime power applications that do not require compliance with emissions regulations.

S8000



Engine Specifications

NOT REGULATED EMISSIONS

Model	Cylinder Arrangement Air Intake Exhaust System	Injection System	Displacement Liters	Emissions
S8000AM1 ³	3L/NA	M	2,9	UR

50 Hz / 1500 rpm						60 Hz / 1800 rpm						Typical Generator eff.	1500/1800 rpm Switchable
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		
31	27	34	28	25	31	34	30	37	31	27	34	88%	●

Legend

Arrangement
L In line

Air Intake
NA Naturally Aspirated

Injection System
M Mechanical

- 1500 rpm / 1800 rpm switchable engine
- Not Switchable Engine

kVA kiloVolt Ampere calculations based on a 0.8 power factor
UR Unregulated
3 TÜV measured based on TA-Luft standards

Key Advantages

	Features	Benefits
Performance	Class G2 of ISO 8528 standard certification of excellent performance related to load acceptance.	100% Transient load response for any stand-by and prime application.
Mechanical Injection System with Electronic Governor	Based on simple and proven mechanical rotary pump, S8000 engine has a direct fuel injection system which is state-of-the-art for accurate fuel delivery.	Simple and easy to install solution pick-up free.
Engine Design	Compact 3 Cylinder in-line with big unit displacement and long stroke.	Compact packaging and installation footprint.
Specific Features	Lean lay-out; starting temperature without auxiliaries down to -5°C (with heat greater down to -12°C). Tropicalized radiator delivered as standard in order.	High performance guaranteed in all conditions.
Air Handling	S8000 engine is available in naturally aspirated version with cooling package rack mounted on engine (non fix on frame is required).	High power density simple and easy to install solution.

	Features	Benefits
600h Oil Interval Change	Optimum design in terms of mechanical clearances, piston rings, engine oil system calculation and optimized engine structure to limit cylinder liners deformation.	Reduced maintenance needs and operating cost.
Component Integration	Integrated CCV (Closed Crankcase Ventilation) system and engine design oriented to high component integration.	Leakage prevention.
Dual Speed Mode	Possibility to switch from 1.500 rpm to 1.800 rpm (50Hz/60Hz).	Product flexibility based on market request.

THE F5 SERIES

From 32 to 57 kWm

Performance

Low operating costs and extremely easy maintenance combined with excellent transient load response.

Efficiency

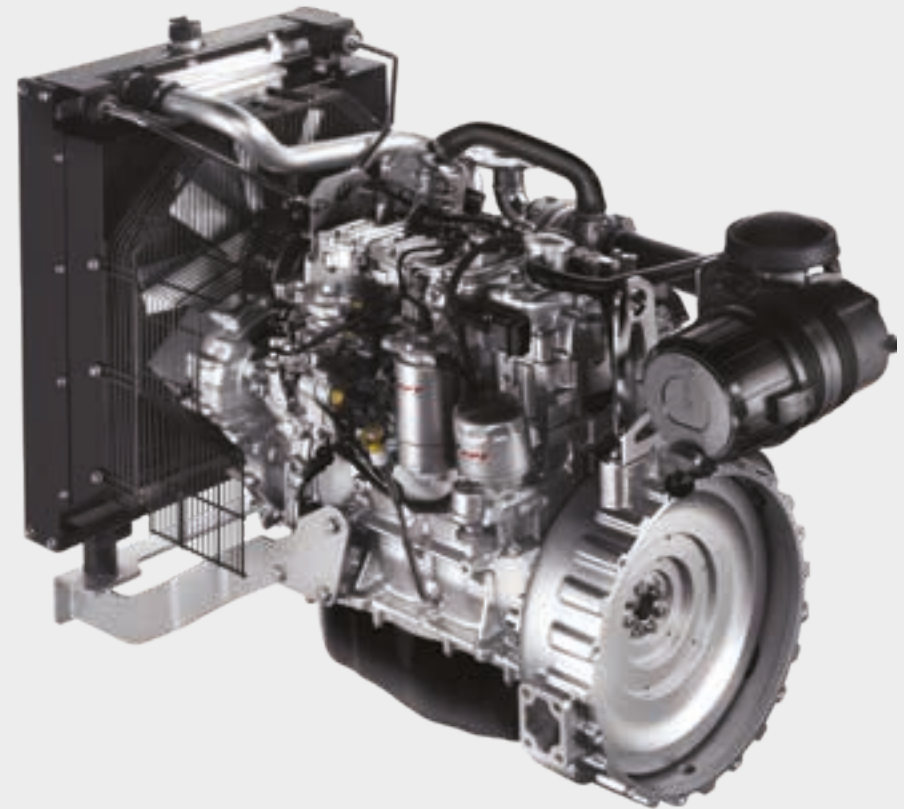
& Productivity
Emission performance is achieved without external EGR, VGT or electronics.

Maintenance

Top-class 600-hours oil change intervals.

Compactness

Lean layout and high component integration facilitate engine installation.



Our F5 series, featuring customer oriented design, stands out for low operating costs. Single-side servicing means maintenance is extremely easy.

These benefits combine with excellent performance: the engines can be used for the most demanding missions, including with high engine inclination or in temperatures as low as -25 °C (-13 °F).

F32 SM



F32 TM



Engine Specifications

REGULATED EMISSIONS

Model	Cylinder Arrangement Air Intake Exhaust System	Injection System	Displacement Liters	Emissions
F32SM1F	4L/TC/I-EGR	M	3,2	UR ²
F32SM1X	4L/TC/I-EGR	M	3,2	Tier 3
F32TM1X	4L/TAA/I-EGR	M	3,2	Tier 3

50 Hz / 1500 rpm						60 Hz / 1800 rpm						Typical Generator eff.	1500/1800 rpm Switchable
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		
32	28	35	29	26	32	-	-	-	-	-	-	88%	o
-	-	-	-	-	-	47	41	51	42	37	46	88%	o
-	-	-	-	-	-	57	51	64	52	47	59	91%	o

Legend

Arrangement
L In line

Exhaust System
I-EGR Internal Exhaust Gas Recirculation

Injection System
M Mechanical

Air Intake
TAA Turbocharged Aftercooler
TC Turbocharged

● 1500 rpm / 1800 rpm switchable engine
o Not Switchable Engine
** Fan absorption: 1%-6%

kVA kiloVolt Ampere calculations based on a 0.8 power factor
UR² Previously EU Stage IIIA

Key Advantages

	Features	Benefits
Performance	Class G2 of ISO 8528 standard certification of excellent performance related to load acceptance.	Excellent transient load response for several power generation applications.
Mechanical Injection System	Based on simple and proven mechanical rotary pump, F5 engines have a direct fuel injection system which is state-of-the-art for accurate fuel delivery.	Simple and easy to install solution, consistent with standard and alternative fuels.
Engine Design	Camshaft in crankcase, suspended oil pan, balancer counterweights incorporated in crankshaft webs.	Vibration & noise reduction.
Specific Features	Lean layout; starting temperature without auxiliaries down to -10°C (with grid heater down to -25°C).	High performance guaranteed in all conditions.
Air Handling	F5 Series engines are available in naturally aspirated, turbocharged and turbocharged with aftercooler versions, in order to reach the highest engine.	High engine power density with the shortest load response time.

	Features	Benefits
600h Oil Interval Change	Optimum engine design in terms of mechanical clearances, piston rings, engine oil system calculation and optimized.	Reduced maintenance needs and operating cost.
Component Integration	Integrated CCV (Closed Crankcase Ventilation) system and engine design oriented to high component integration.	Leakage prevention.
Serviceability & Maintainability	One side (left) engine maintenance layout and world-wide service network.	Quick service support and easy maintenance.
Option List	Options for electronic speed governor; hot part guards, water jacket heater, alarm senders, oil drain systems, front radiator guard.	Customer orientation and specific engine architecture based on application type.



THE NEF SERIES

From 46 to 253 kWm

Performance

High thermodynamic performance and engine response make these engines the best choice.

Efficiency & Productivity

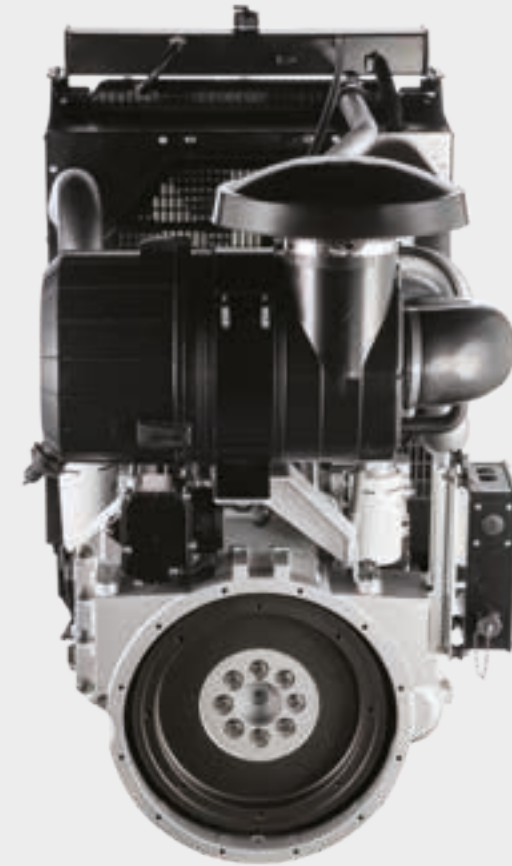
Emission performance is achieved without external EGR, VGT or electronics systems.

Maintenance

Extra-long oil change intervals (up to 800 hours with NEF mechanical versions).

Compactness

Compact size and high component integration facilitate engine installation.



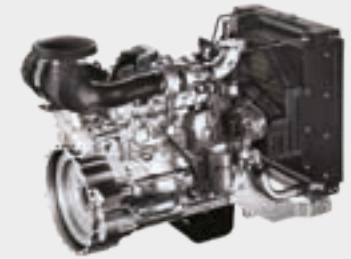
The NEF Series showcases FPT Industrial's technological excellence. Developed to satisfy the most demanding requirements, the engines in this range stand out for reliability and reduced fuel consumption.

They are available with 4 or 6 cylinders, with a mechanical or electronic common-rail injection system.

N45 AM / SM



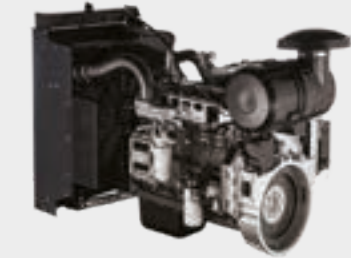
N45 TM / TE



N67 SM / TM



N67 TE



Engine Specifications

NOT REGULATED EMISSIONS

Model	Cylinder Arrangement Air Intake Exhaust System	Injection System	Displacement Liters	Emissions
N45AM1A ³	4L/NA	M	4,5	UR ¹
N45AM2	4L/NA	M	4,5	UR
N45SM1A ³	4L/TC	M	4,5	UR ¹
N45SM3	4L/TC	M	4,5	UR
N45TM2A ³	4L/TAA	M	4,5	UR ¹
N45TM3 ³	4L/TAA	M	4,5	UR

Model	50 Hz / 1500 rpm						60 Hz / 1800 rpm						Typical Generator eff.	1500/1800 rpm Switchable
	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		
N45AM1A ³	46	40	51	42	37	46	-	-	-	-	-	-	88%	○
N45AM2	50	44	55	45	40	50	-	-	-	-	-	-	88%	○
N45SM1A ³	59	54	67	53	48	60	65	59	74	59	54	67	91%	●
N45SM3	81	74	92	73	66	83	87	79	99	79	72	90	91%	●
N45TM2A ³	96	88	110	88	81	101	107	98	123	98	90	113	92%	●
N45TM3 ³	118	109	136	107	98	123	122	112	140	111	102	128	92%	●

REGULATED EMISSIONS

Model	Cylinder Arrangement Air Intake Exhaust System	Injection System	Displacement Liters	Emissions
N45SM1F	4L/TC/I-EGR	M	4,5	Stage IIIA
N45TE1F	4L/TAA/I-EGR	ECR	4,5	Stage IIIA / Tier 3
N45TE2F	4L/TAA/I-EGR	ECR	4,5	Stage IIIA / Tier 3
N45SM1X	4L/TC/I-EGR	M	4,5	Tier 3
N45SM2X	4L/TC/I-EGR	M	4,5	Tier 3
N45TM2X	4L/TAA/I-EGR	M	4,5	Tier 3

Model	50 Hz / 1500 rpm						60 Hz / 1800 rpm						Typical Generator eff.	1500/1800 rpm Switchable
	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		
N45SM1F	60	55	68	55	50	63	-	-	-	-	-	-	91%	○
N45TE1F	80	73	91	73	66	83	87	79	99	79	72	90	91%	●
N45TE2F	98	90	113	89	82	102	122	112	140	111	102	128	92%	●
N45SM1X	-	-	-	-	-	-	57	52	65	53	48	60	91%	○
N45SM2X	-	-	-	-	-	-	67	61	76	61	56	69	91%	○
N45TM2X	-	-	-	-	-	-	95	87	109	87	80	100	92%	○

Legend

Arrangement
L In line

Air Intake
NA Naturally Aspirated
TAA Turbocharged Aftercooler
TC Turbocharged

Exhaust System
I-EGR Internal Exhaust Gas Recirculation

Injection System
M Mechanical
ECR Electronic Common Rail

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

kVA kiloVolt Ampere calculations based on a 0.8 power factor
UR Unregulated
UR¹ Previously EU Stage II
3 TÜV measured based on TA-Luft standards

Engine Specifications

NOT REGULATED EMISSIONS

Model	Cylinder Arrangement Air Intake Exhaust System	Injection System	Displacement Liters	Emissions
N67SM1	6L/TC	M	6,7	UR
N67TM2A ³	6L/TAA	M	6,7	UR ¹
N67TM3A ³	6L/TAA	M	6,7	UR ¹
N67TM4	6L/TAA	M	6,7	UR
N67TE2A ²	6L/TAA	ECR	6,7	UR ¹
N67TM7	6L/TAA	M	6,7	UR
N67TE8W ³	6L/TAA	ECR	6,7	UR

50 Hz / 1500 rpm						60 Hz / 1800 rpm						Typical Generator eff.	1500/1800 rpm Switchable
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		
121	111	139	110	101	127	138	127	159	125	115	144	92%	●
126	116	145	114	105	131	141	130	162	128	118	147	92%	●
152	140	175	138	127	159	165	152	190	149	137	171	92%	●
165	152	190	150	138	173	-	-	-	-	-	-	92%	○
193	179	224	175	163	203	215	200	250	195	181	227	93%	●
195	181	227	177	165	206	195	181	227	177	165	206	93%	●
238	221	277	216	201	251	253	235	294	230	214	267	93%	●

REGULATED Emissions

Model	Cylinder Arrangement Air Intake Exhaust System	Injection System	Displacement Liters	Emissions
N67TM1F	6L/TAA/I-EGR	M	6,7	Stage IIIA
N67TE1F	6L/TAA/I-EGR	ECR	6,7	UR ² / Tier 3
N67TE2F	6L/TAA/I-EGR	ECR	6,7	UR ² / Tier 3
N67TE3F	6L/TAA/I-EGR	ECR	6,7	UR ² / Tier 3
N67TM1X	6L/TAA/I-EGR	M	6,7	Tier 3
N67TE1X	6L/TAA/I-EGR	ECR	6,7	Tier 3
N67TE2X	6L/TAA/I-EGR	ECR	6,7	Tier 3

50 Hz / 1500 rpm						60 Hz / 1800 rpm						Typical Generator eff.	1500/1800 rpm Switchable
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		
125	115	144	114	105	131	-	-	-	-	-	-	92%	○
145	133	167	132	121	152	157	144	181	142	131	163	92%	●
165	154	192	150	140	175	202	188	236	183	171	213	93%	●
195	181	227	175	163	203	212	197	246	192	179	223	93%	●
-	-	-	-	-	-	141	130	162	128	118	147	92%	○
-	-	-	-	-	-	165	152	190	150	138	173	92%	○
-	-	-	-	-	-	200	186	233	182	169	212	93%	○

Legend

Arrangement
L In line

Air Intake
TAA Turbocharged Aftercooler
TC Turbocharged

Exhaust System
I-EGR Internal Exhaust Gas Recirculation

Injection System
M Mechanical
ECR Electronic Common Rail

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

kVA kiloVolt Ampere calculations based on a 0.8 power factor
UR Unregulated
UR¹ Previously EU Stage II
UR² Previously EU Stage IIIA

2 Complies to TA Luft (1986) regulations
3 TÜV measured based on TA-Luft standards

Mechanical Engines Key Advantages

	Features	Benefits
Performance	Class G2 of ISO 8528 standard certification of excellent performance related to load acceptance.	Excellent transient load response for several power generation applications.
Injection System	The easy-to-maintain rotary pump is the core of the NEF mechanical series. The system is based on direct fuel injection for accurate fuel delivery.	Reliable and cost effective solution, consistent with standard and alternative fuels.
Dual Speed Mode	Possibility to switch from 1500 rpm to 1800 rpm (only one homologation engine rate).	Engine adaptable to market request.
Specific Features	Minimum cold starting temperature without auxiliaries down to -10°C (with grid heater down to -25°C).	High performance guaranteed in all conditions.
Air Handling	NEF Series engines are available in naturally aspirated, turbocharged and turbocharged with aftercooler versions in order to reach the highest engine performance.	High engine power density with the shortest load response time.

	Features	Benefits
Up to 800h Oil Interval Change	NEF Series adopts combustion chambers optimized to reduce oil dilution and are designed with an optimum engine design in terms.	Reduced maintenance needs and operating cost.
Serviceability & Maintainability	Worldwide service network. Engines featured with a proven mechanical injection system without electronic interfaces and without external EGR.	Quick service support and easy maintenance.
Component Integration	Integrated CCV (Closed Crankcase Ventilation) system and engine design oriented to high component integration. Water-oil cooler.	Leakage prevention.
Engine Design	Balancer counterweights incorporated in crankshaft webs, rear gear train layout, camshaft in crankcase, suspended oil pan, ladder frame cylinder block.	Vibration and noise reduction engine structural stiffness.
Option List	Options for electronic speed governor; hot part guards, water jacket heater, alarm senders, oil drain systems, front radiator guard.	Customer orientation and specific engine based on application type.

Electronic Engines Key Advantages

	Features	Benefits
Performance	Class G3 of ISO 8528 standard certification of excellent performance related to load response.	Excellent transient load response for several power generation applications.
Injection System	Accurate fuel delivery to achieve top performance in terms of load response and top power with low fuel consumption.	High engine thermodynamic performance with low fuel consumption.
Dual Speed Mode	Possibility to switch from 1500 rpm to 1800 rpm. User friendly thanks to interface card.	Engine adaptable to market request.
Specific Features	Minimum cold starting temperature without auxiliaries down to -10°C (with grid heater down to -25°C). Most demanding Emissions performance achieved.	High performance guaranteed in all conditions.
Air Handling	Turbocharged with air-to-air charge cooled air system with 4 valves per cylinder to increase engine efficiency thanks to the optimization of thermodynamic.	High engine power density with the shortest load response time.

	Features	Benefits
600h Oil Interval Change	CURSOR Series adopts combustion chambers and high pressure injection system optimized to reduce oil dilution.	Reduced maintenance needs and operating cost.
Serviceability & Maintainability	Worldwide service network. Engine ECU with CAN-BUS control & monitoring interfaces may be used for advanced real time diagnosis.	Quick service support and easy maintenance.
Engine Design	Multiple injections, balancer counterweights incorporated in crankshaft webs, rear geartrain layout, camshaft in crankcase, suspended oil pan.	Vibration & noise reduction engine structural stiffness.
Component Integration	Integrated CCV (Closed Crankcase Ventilation) system and engine design oriented to high component integration.	Leakage prevention.
Option List	Options for hot part guards, water jacket heater, alarm senders, oil drain systems, front radiator guard.	Customer orientation and specific engine architecture based on application type.

THE CURSOR SERIES

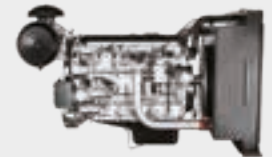
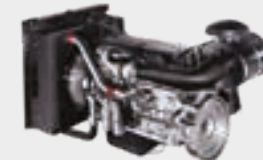
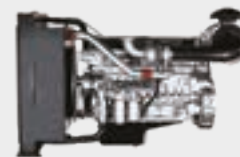
From 299 to 578 kWm

Performance
Excellence load acceptance and fuel efficiency.

Efficiency & Productivity
Designed for heavy duty conditions and harsh environment.

Maintenance
Maintenance cost is reduced by best-in-class oil service intervals (up to 600 hours).

Compactness
Compact size and high component integration facilitate engine installation.



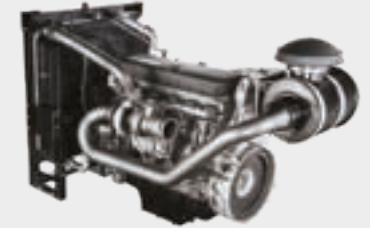
In the CURSOR Series, top power, fast load response and high-power density combine with low fuel consumption.

The performance of this range is outstanding. High reliability, and extremely low operating costs thanks to long maintenance intervals, are its core values.

C87 TE



C16 TE



C13 TE



Engine Specifications

NOT REGULATED EMISSIONS

Model	Cylinder Arrangement Air Intake Exhaust System	Injection System	Displacement Liters	Emissions
CURS0R87TE4 ³	6L/TAA	ECR	8,7	UR
CURS0R13TE2A ³	6L/TAA	EUI	12,9	UR ¹
CURS0R13TE3A ³	6L/TAA	EUI	12,9	UR ¹
CURS0R13TE6W	6L/TAA	ECR	12,9	UR
CURS0R13TE7W	6L/TAA	ECR	12,9	UR
CURS0R16TE1W ³	6L/TAA	ECR	15,9	UR

Model	Cylinder Arrangement Air Intake Exhaust System	Injection System	Displacement Liters	Emissions	50 Hz / 1500 rpm			60 Hz / 1800 rpm			Typical Generator eff.	1500/1800 rpm Switchable						
					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
					299	278	348	275	256	320	333	310	387	306	285	356	93%	●
					330	308	384	300	280	350	360	336	419	327	305	381	93%	●
					387	364	455	352	331	414	398	374	468	360	338	423	94%	●
					414	395	494	371	354	442	454	433	541	400	382	477	95%	●
					459	438	547	425	405	507	474	452	565	428	408	510	95%	●
					557	529	661	505	480	600	578	549	686	523	497	621	95%	●

REGULATED Emissions

Model	Cylinder Arrangement Air Intake Exhaust System	Injection System	Displacement Liters	Emissions
CURS0R87TE3F	6L/TAA/I-EGR	ECR	8,7	UR ² / Tier 3
CURS0R87TE4F	6L/TAA/I-EGR	ECR	8,7	UR ² / Tier 3
CURS0R13TE1F	6L/TAA/I-EGR	EUI	12,9	UR ² / Tier 3
CURS0R13TE2F	6L/TAA/I-EGR	EUI	12,9	UR ² / Tier 3
CURS0R13TE3X	6L/TAA/I-EGR	EUI	12,9	Tier 3

Model	Cylinder Arrangement Air Intake Exhaust System	Injection System	Displacement Liters	Emissions	50 Hz / 1500 rpm			60 Hz / 1800 rpm			Typical Generator eff.	1500/1800 rpm Switchable						
					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
					256	238	298	232	216	270	280	260	326	254	236	295	93%	●
					292	272	339	262	244	305	320	298	372	287	267	334	93%	●
					327	309	386	296	280	350	309	292	365	278	263	328	94%	●
					372	354	443	336	320	400	334	318	397	300	286	357	95%	●
					-	-	-	-	-	-	371	349	436	337	317	396	94%	○

Legend

Arrangement
L In line

Exhaust System
I-EGR Internal Exhaust Gas Recirculation

Air Intake
TAA Turbocharged Aftercooler

Injection System
ECR Electronic Common Rail
EUI Electronic Unit Injector

● 1500 rpm / 1800 rpm switchable engine
○ Not Switchable Engine
** Fan absorption: 1%-6%

kVA kiloVolt Ampere calculations based on a 0.8 power factor
UR Unregulated
UR¹ Previously EU Stage II
UR² Previously EU Stage IIIA

3 TÜV measured based on TA-14ft standards

Key Advantages

	Features	Benefits
Performance	Class G3 of ISO 8528 standard certification of excellent performance related to load response.	Excellent transient load response for several power generation applications.
Injection System	Accurate fuel delivery to achieve top performance in terms of load response and top power with low fuel consumption.	High engine thermodynamic performance with low fuel consumption.
Dual Speed Mode	Possibility to switch from 1500 rpm to 1800 rpm. User friendly thanks to interface card.	Engine adaptable to market request.
Specific Features	Minimum cold starting temperature without auxiliaries down to -10°C (with grid heater down to -25°C). Most demanding Emissions performance achieved.	High performance guaranteed in all conditions.
Air Handling	Turbocharged with air-to-air charge cooled air system with 4 valves per cylinder to increase engine efficiency thanks to the optimization of thermodynamic.	High engine power density with the shortest load response time.

	Features	Benefits
600h Oil Interval Change	CURSOR Series adopts combustion chambers and high pressure injection system optimized to reduce oil dilution.	Reduced maintenance needs and operating cost.
Serviceability & Maintainability	Worldwide service network. Engine ECU with CAN-BUS control & monitoring interfaces may be used for advanced real time diagnosis.	Quick service support and easy maintenance.
Engine Design	Multiple injections, balancer counterweights incorporated in crankshaft webs, rear geartrain layout, camshaft in crankcase, suspended oil pan.	Vibration & noise reduction engine structural stiffness.
Component Integration	Integrated CCV (Closed Crankcase Ventilation) system and engine design oriented to high component integration.	Leakage prevention.
Option List	Options for hot part guards, water jacket heater, alarm senders, oil drain systems, front radiator guard.	Customer orientation and specific engine architecture based on application type.

Energy Solutions Powered by FPT Industrial

Our Power Generation offering includes open and soundproofed gensets as well as plant and after-sale services. The standard range covers the main applications, such as emergency services and self-generation.

The line-up for the Power Generation segment includes the F5, NEF, and CURSOR series ranging from 30 to 500 kVA.

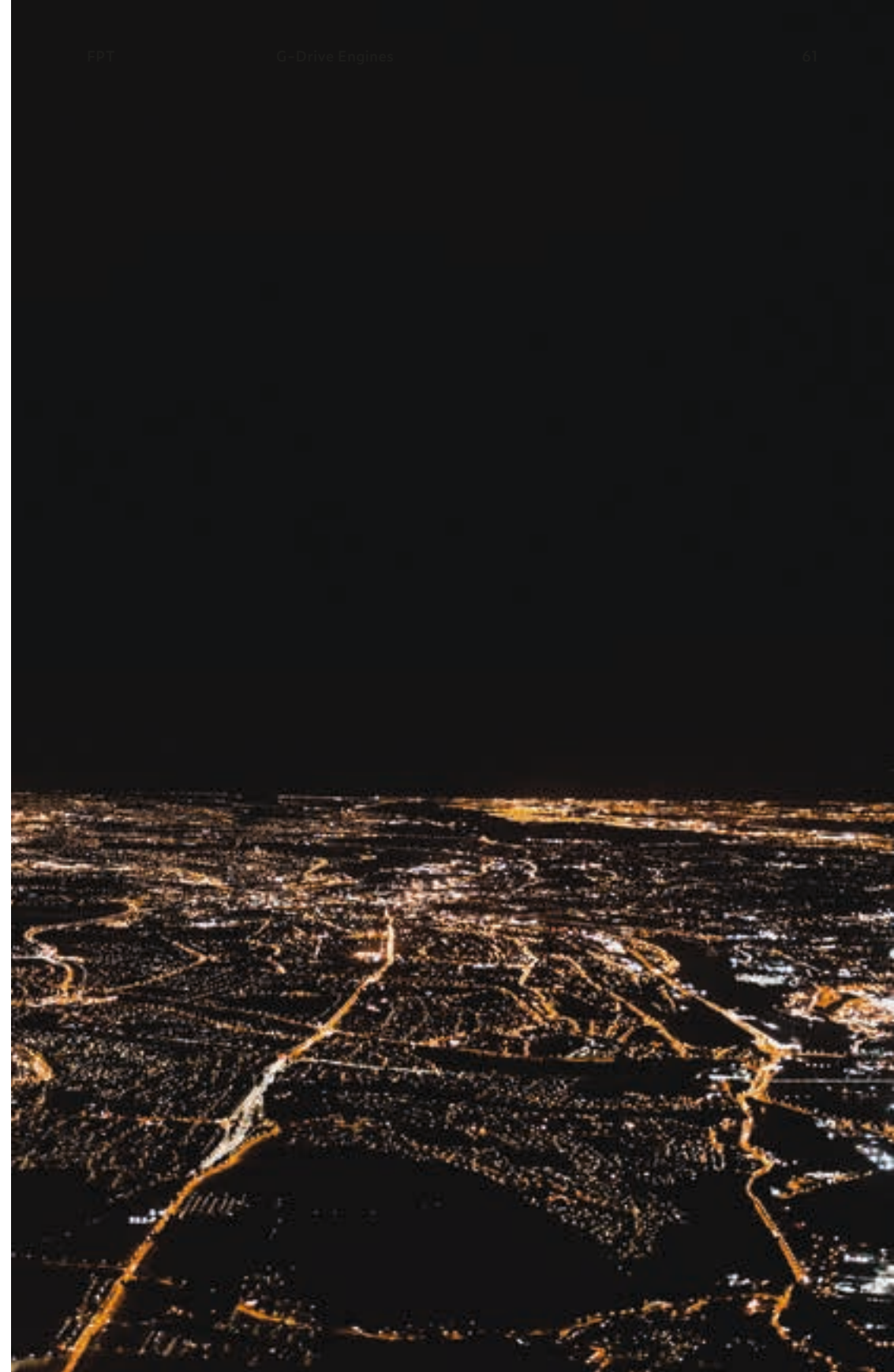
The products in FPT Industrial's portfolio can be easily configured to suit usage needs.

Power sets in containers provide high kVA output for emergency installations and for both on-shore and off-shore petroleum or gas platforms.

Low-voltage distribution panels, specific shelters and resistances complete the product mix.

Our strong customer orientation allows us to respond to the peculiar requirements of contractors such as Armed Forces, telcos and energy distributors. FPT's products are tailor-built and supplied turnkey.

For FPT, respect for the environment is a clear commitment. In our genset installations, it goes hand in hand with outstanding performance.



HI-ESCR

TIER4 FINAL

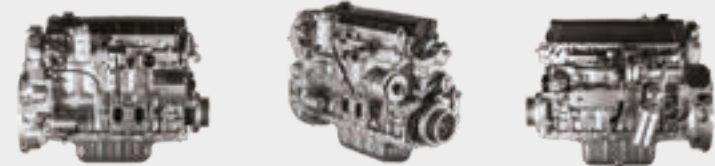
From 54 to 424 kWm

Performance
Effective turbocharger solution and increased power density for best in class performance.

Efficiency & Productivity
Low operating costs thanks to combustion efficiency and long service intervals.

Maintenance
Maintenance-free after-treatment solution for low running costs.

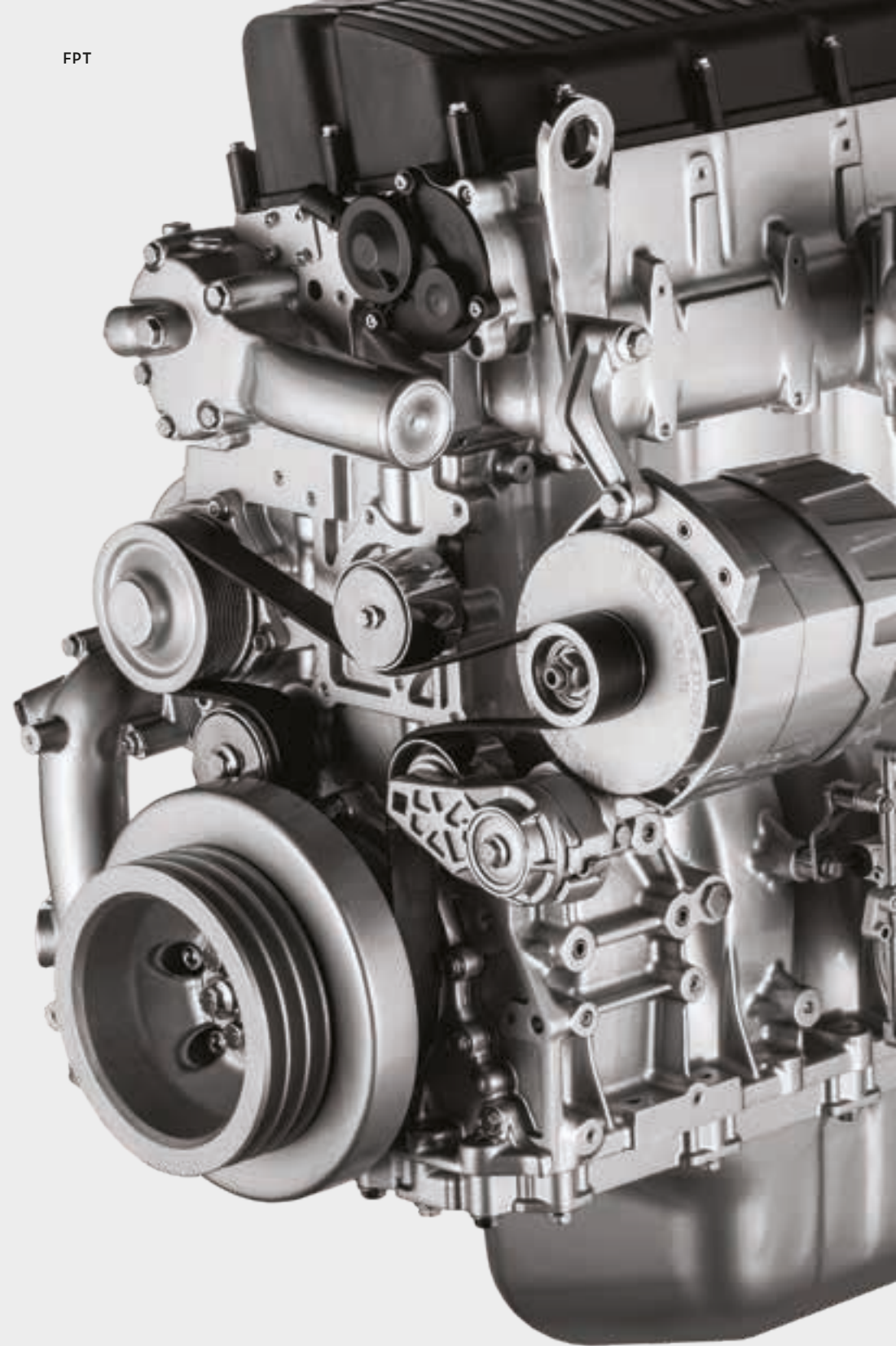
EGR Free Solution
No additional cooling system requirements thanks to EGR free solution



Tier 4 Final standards bring a dramatic reduction in harmful NOx and PM, up to a 90% abatement from Tier 3. FPT Industrial is focusing its R&D activities to become the innovation leader in industrial powertrains, and the go-to reference provider of the most cost-effective solutions for Tier 4 Final.

Our breakthrough HI-eSCR technology meets the strictest emissions requirements, while providing best-in-class performance and total running costs. FPT's engines in this range also offer easier maintenance, reducing your downtime.

TIER 4 FINAL UNIQUE MODEL



Emission Standards Scenario

During the combustion process, inside a Diesel engine, the chemical energy is transformed into a mechanical one. Because of the chemistry of combustion, several toxic substances are produced, of which the most harmful are Nitrogen Oxides (NO_x) and Particulate Matter (PM).

Tier4 Final compliance implies a significant reduction of NO_x and PM reaching a 90% abatement versus Tier3 Emissions step.

- NO_x Emissions reduced by 90% compared to Tier3.
- Introduction of an ammonia Emissions limit.

Tier 4 Final Engines

Through continuous technical advances building upon a state-of-the-art engine range, Tier4 Final permits re-engineered engines, allowing our customers to retain their class-leading features, such as minimized total cost of ownership. Key to the optimization of combustion efficiency is high mean effective cylinder pressure and high injector nozzle pressures.

To achieve these goals, important changes to the crankcase and cylinder head design have been implemented. The engines fitted with the latest generation of multiple events Common Rail fuel injection equipment with peak nozzle pressures of up to 2200 bar. A new Electronic Control Unit has been introduced to manage both engine parameters and accurate control of the after-treatment system.

The new control unit has been designed to fully integrate engine and SCR functions. For the very best in environmental performance, the engines are equipped with closed circuit engine breathing systems.

In addition, since the engine only breathes cleaner air, rather than recirculated exhaust gases, engine wear maintenance is low with long intervals in between oil changes, with service intervals of up to 600h without increased oil sump. FPT Industrial Tier4 Final engines offer lower operating costs and reduced overall downtime for ease of maintenance.

HI-eSCR System

System Description

Due to the opposite reaction to combustion temperature, the reduction of either of the combustion products (NO_x or PM) implies the increase of the other one. In order to further reduce NO_x , as required by Tier4 Final, it is necessary to work on separate combustion management and exhaust gas treatment systems simultaneously.

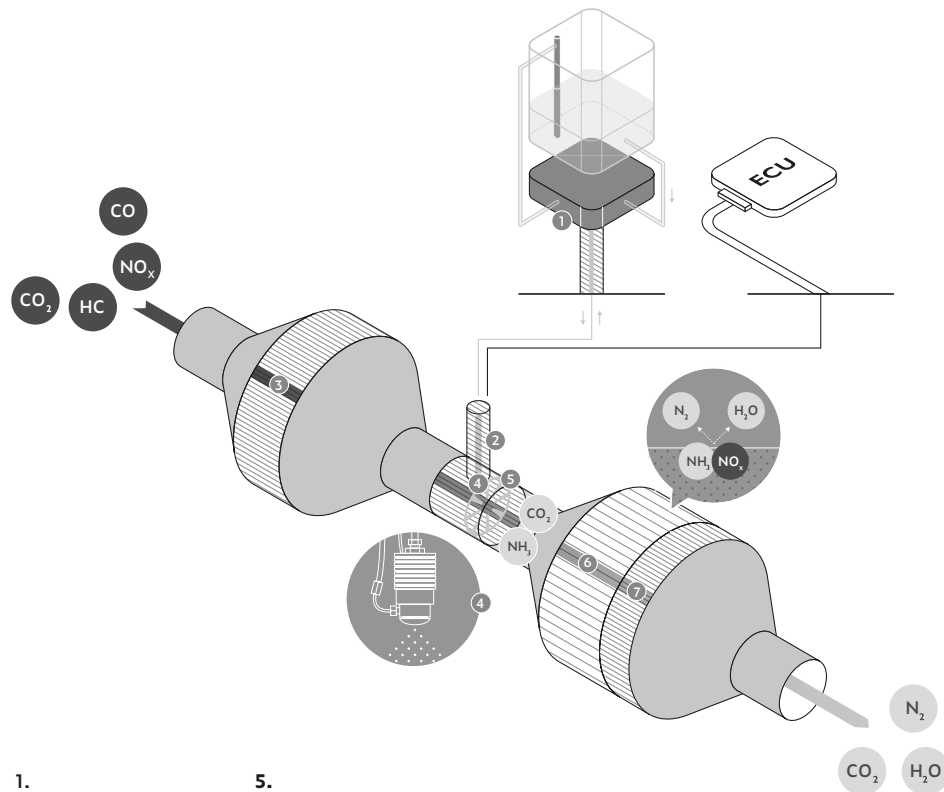
This means that Tier4 Final Emissions limits can be reached only through the use of SCR (Selective Catalytic Reduction), either with or without EGR. The use of an EGR system reduces the NO_x Emissions in the combustion chamber, through exhaust gas recirculation with a consequential increase in the production of particulate matter (PM) and a reduction in combustion efficiency.

FPT Industrial has chosen instead to increase the engine combustion efficiency to reduce the PM without using EGR or DPF, allowing engines to work at peak performance without compromise. The resulting increase in NO_x is reduced in the SCR system, while improving fuel efficiency and overall power system reliability.

FPT Industrial's HI-eSCR solution is able to reduce NO_x levels by more than 95%. The SCR Only technology allows for the introduction of a new integrated approach that is the result of extensive research by FPT Industrial, research that has led to the creation of numerous significant patents.

Six Reasons to Choose HI-eSCR

- Scr Heritage** FPT Industrial's heritage in SCR technology is well-established. Since 2005 we have equipped more than 1.000.000 vehicles with this technology.
- Outstanding Performance** Our engines are developed to maximize power density with the shortest load response time with minimal impact on the environment, due to the use of the HI-eSCR system.
- Fuel Consumption** The efficiency of the combustion process optimizes fuel consumption reducing customer operating costs.
- Compact Packaging** Compared to competitor's engines, the thermodynamic efficiency of the FPT Industrial solutions allows to maximize power output for each engine space requirement and complexity.
- Maintenance Intervals** The optimized combustion process preserves oil's physical properties reducing maintenance activities and related downtime. The engines maintain their best in class oil maintenance intervals of up to 600h, without an increased oil sump.
- High Reliability** HI-eSCR system allows the engine to reduce heat rejection of many internal engine components which leads to increased reliability.



1. **DEF/AdBlue Supply Module**

2. **DEF/AdBlue Dosing Module**

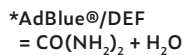
3. **Diesel Oxidation Catalyst (DOC)**
 NO → NO₂
 HC, CO and PM oxidation

4. **DEF/AdBlue Injection**
 Hydrolysis → NH₃+CO₂

5. **DEF/AdBlue Mixer**

6. **Selective Catalytic Reduction (SCR)**
 NO and NO₂ reduction by NH₃ to N₂ and H₂O

7. **Clean Up Catalyst**
 Residual NH₃ oxidation



Legend

PM Particulate Matter
 HC Unburnt Hydrocarbons

NO_x Nitrogen Oxides
 CO Carbon Monoxide

N₂ Nitrogen
 CO₂ Carbon Dioxide
 H₂O Water



Main Components

The whole system is fitted with a network of integrated sensors to control the NO_x and any excess of NH₃ (ammonia) emitted. Exhaust gas flow coming from the engine enters the DOC, where NO is oxidized in NO₂, in order to maximize SCR catalyst's efficiency conversion.

The ECU (Engine Control Unit), the brain behind the HI-eSCR system, checks, through a network of integrated sensors, the amount of Water-Urea (DEF/AdBlue) solution required to be injected into the exhaust pipe. To increase the durability of the injector, the Dosing Module is cooled with the engine coolant.

The HI-eSCR after-treatment system adopts a catalyst converting NO_x into Nitrogen (N₂) and Water (H₂O) thanks to the chemical reaction with a Water-Urea solution. In the end, the integrated CUC eliminates the remaining ammonia (NH₃). The result is a reduction of NO_x over 95%.

Patents

- "Closed" loop control to allow precise dosing of NO_x and Ammonia sensors to provide accurate info on the composition of exhaust gases and reduce the use of DEF/AdBlue.
- NO_x Adaptive DEF/AdBlue dosing system in order to cut the level of NO_x Emissions entering the SCR catalyst.
- Thermally insulated high turbulence mixing, to allow homogeneous hydrolysis of urea, creating correct distribution in exhaust gas flow.
- Improved exhaust gas temperature control to speed up SCR light-off in the cold part of Emissions cycle.

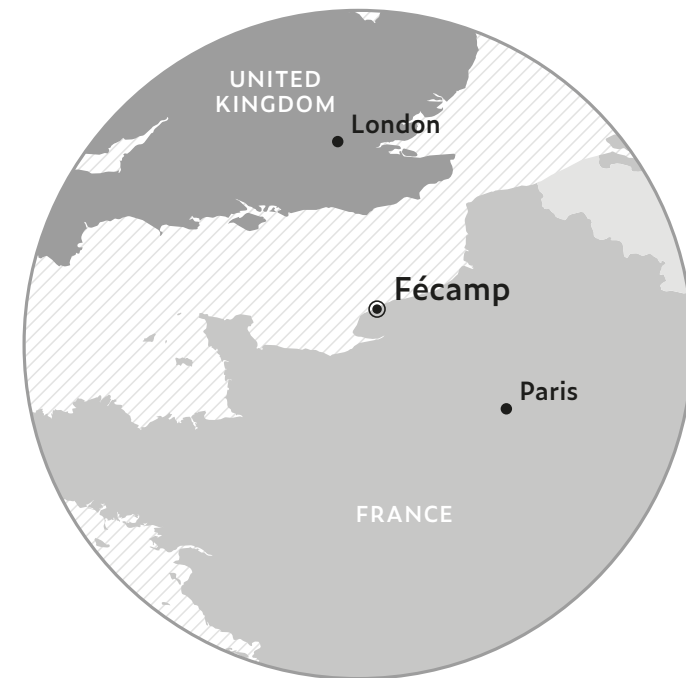
All the components of the HI-eSCR after-treatment system are contained in a compact, and fully enclosed structure thereby not impeding body building or chassis equipment mounting activities, and minimizing the weight impact.

2H Energy Powered by FPT Industrial

Located in France, at Fécamp, 2HE is an FPT Industrial company offering a wide range of tailored power generation solutions aimed to satisfy customers with specific needs, such as Armies, oil and gas companies, energy providers, nuclear power stations and hospitals. 2HE offer includes "turnkey" supply, engineering support, production and installation, together with assistance service and customer training.

The company portfolio is enriched by special products like 400 Hz units for airport applications, gensets in containers up to 6 MWatt, specific shelters, energy systems for off-shore installations, resistances and low voltage distribution panels (specifically designed for nautical and nuclear applications).

Thanks to its proven expertise to manage complex project from blank sheet up to maintenance and service activity worldwide, 2HE is a reference in the highly specialized power generation segment.



- Plant
- R&D
- ⊙ Plant + R&D

2HENERGY



Engine Specifications

REGULATED EMISSIONS

Model	Cylinder Arrangement Air Intake Exhaust System	Injection System	Displacement Liters	Emissions
F34SNDZW055 ^{1 4}	4L/TC/EGR + DOC + PMcat	ECR	3,4	Tier 4 Final
N45ENTZW68 ¹	4L / TAA / DOC + SCR+CUC	ECR	4,5	Tier 4 Final
N45ENTZW69	4L / TAA / DOC + SCR+CUC	ECR	4,5	Tier 4 Final
N67ENTZW61 ¹	6L / TAA / DOC + SCR+CUC	ECR	6,7	Tier 4 Final
N67ENTZW62 ¹	6L / TAA / DOC + SCR+CUC	ECR	6,7	Tier 4 Final
N67ENTZW68	6L / TAA / DOC + SCR+CUC	ECR	6,7	Tier 4 Final
N67ENTZW69	6L / TAA / DOC + SCR+CUC	ECR	6,7	Tier 4 Final
CURS0R87ENTZW61	6L / TAA / DOC + SCR+CUC	ECR	8,7	Tier 4 Final
CURS0R87ENTZW62	6L / TAA / DOC + SCR+CUC	ECR	8,7	Tier 4 Final
CURS0R87ENTZW68	6L / TAA / DOC + SCR+CUC	ECR	8,7	Tier 4 Final
CURS0R87ENTZW69	6L / TAA / DOC + SCR+CUC	ECR	8,7	Tier 4 Final
CURS0R13ENTZW61	6L / TAA / DOC + SCR+CUC	ECR	12,9	Tier 4 Final
CURS0R13ENTZW68	6L / TAA / DOC + SCR+CUC	ECR	12,9	Tier 4 Final
CURS0R13ENTZW69	6L / TAA / DOC + SCR+CUC	ECR	12,9	Tier 4 Final

Legend

Arrangement

L In line

Air Intake

NA Naturally Aspirated
TAA Turbocharged Aftercooler
TC Turbocharged

Exhaust System

I-EGR Internal Exhaust Gas Recirculation
DOC Diesel Oxidation Catalyst
SCR Selective Catalytic Reduction
CUC Clean-up Catalyst
PMcat Particulate Matter Catalyst

Injection System

M Mechanical
ECR Electronic Common Rail
EUI Electronic Unit Injector

kVA kiloVolt Ampere calculations based on a 0.8 power factor
UR Unregulated
UR¹ Previously EU Stage II

● 1500 rpm / 1800 rpm switchable engine
○ Not Switchable Engine
** Fan absorption: 1%-6%

1 Preliminary data
4 Available H1 2019 in G-drive configuration

BARE ENGINES

50 Hz / 1500 rpm							60 Hz / 1800 rpm						Typical Generator eff.	1500/1800 rpm Switchable
Stand-by Power			Prime Power				Stand-by Power			Prime Power				
kWm (gross)	kWe**	kVA**	kWm (gross)	kWe**	kVA**	kWm (gross)	kWe**	kVA**	kWm (gross)	kWe**	kVA**			
-	-	-	-	-	-	54	48	60	49	43	54	92%	○	
-	-	-	-	-	-	85	78	97	77	70	88	93%	○	
-	-	-	-	-	-	126	116	145	115	106	132	93%	○	
-	-	-	-	-	-	145	129	161	132	116	145	93%	○	
-	-	-	-	-	-	167	149	186	152	135	169	93%	○	
-	-	-	-	-	-	195	175	219	177	158	198	93%	○	
-	-	-	-	-	-	223	200	251	203	182	227	93%	○	
-	-	-	-	-	-	260	233	291	236	210	263	93%	○	
-	-	-	-	-	-	282	253	316	256	229	286	93%	○	
-	-	-	-	-	-	309	281	351	281	255	318	94%	○	
-	-	-	-	-	-	330	301	376	300	273	341	94%	○	
-	-	-	-	-	-	353	324	404	321	294	368	94%	○	
-	-	-	-	-	-	380	350	438	345	318	397	95%	○	
-	-	-	-	-	-	424	391	488	385	355	443	95%	○	

Identification Plate T4F Engines

N45ENTZW68:

N Engine Family
F= F5
N= NEF
CURSOR = CURSOR

E Injection system
M = Mechanical
E = Electronic

Z Emission regulation
F= Stage IIIA
X = Tier 3
Z = Tier 4 Final

N Crankcase
N = No structural
S = Structural

W ECU type

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

6 Application

8 Rating model

67 Displacement in liters
45 = 4,5 liters



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