

# Base Engine - NEF 67 Mechanical G-drive

Customer Management

**June 2017**

LATAM – Customer Management

# Base Engine Project

## Engine pivot reference

- F1 Family (n.2)
  - F1A
  - F1C
- NEF Family (n.6)
  - NEF 45 Electronic On Road
  - NEF 67 Electronic On Road
  - NEF 45 Mechanical Off Road
  - NEF 67 Mechanical Off Road
  - NEF 45 Electronic Off Road
  - NEF 67 Electronic Off Road
- Cursor Family (n.6)
  - CURSOR 9 On Road
  - CURSOR 10 On Road
  - CURSOR 13 On Road
  - CURSOR 9 Off Road
  - CURSOR 10 Off Road
  - CURSOR 13 Off Road
- S8000 Family (n.2)
  - S8000 3 Cyl. Off Road
  - S8000 4 Cyl. Off Road
- G - Drive Family (n.6)
  - S8000 G - Drive
  - NEF 4 G - Drive
  - NEF 6 MEC. G – DRIVE**
  - NEF 6 ELE. G – DRIVE
  - CURSOR 9 G - Drive
  - CURSOR 13 G - Drive



# NEF 67 Mechanic Gdrive - 5801395391

## INDEX

Base Engine Matrix

Variant Engine Matrix

Base Engine Max. Dimensions/Views

Base Engine Curve (Power & Torque)

General Engine Portfolio Variants

Main Features & Competitive Advantages

# FPTi Engines Portfolio – NEF 67 Mechanic Gdrive - 5801395391

## Base Engine Matrix

### Block 1 – Engine Type

Engine Family	NEF
Number Cylinder	6
Displacement L	6.7
Emission	Nom Emissioned
Mission (Off-Road or On-Road)	Industrial
Current Vehicle Application	G Drive
Segment Application	Industrial

### Block 2 – Engine Base

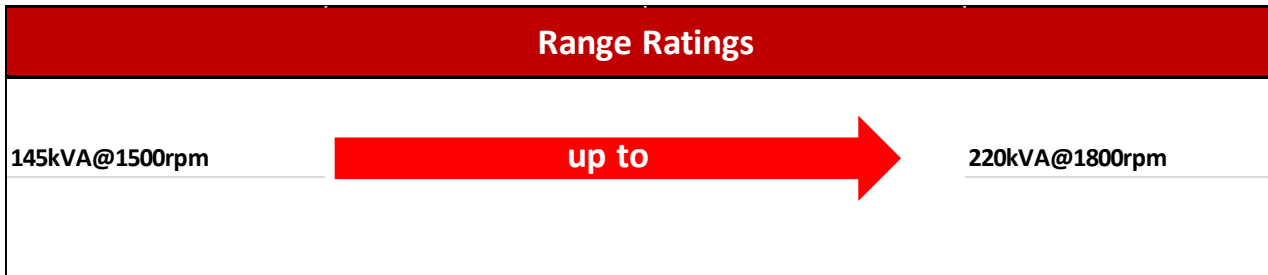
Power (kVA@rpm)	220@1500
Injection Type@Brand	Injection pump - Delphi
Engine Speed(rpm)	1800
Voltage (V)	12
Crankcase	Steel
Overhead Cylinder	Iron Cast 4 Valves
Dry weight (Including cooling package)	640
Driven Type	Gear
EGR System (Yes or No@Type)	NA

### Block 3 – Dressing

Turbocharger	WG
Flywheel to Clutch Assembly (Inch)	11' 1/2
Flywheel Housing (SAE)	SAE 3
Oil Sump	Yes
Starter Mounting	Yes
Alternator (Brand@Am)	90
HWT and LOP sensors	Yes
WT and OP Transmitters for instruments	Yes
Front mounted engine support	Yes
Front mounted radiator support	Yes
Air heat exchanger	Yes
Mounted Radiator	Yes
Fuel Filter	Yes
Oil drain plug	Yes
Fan protection	Yes
Fan air mounted with a belt tensioner	Yes
Starter	Yes



## Variant Engine Matrix



CNH Currents Application
Power Generation

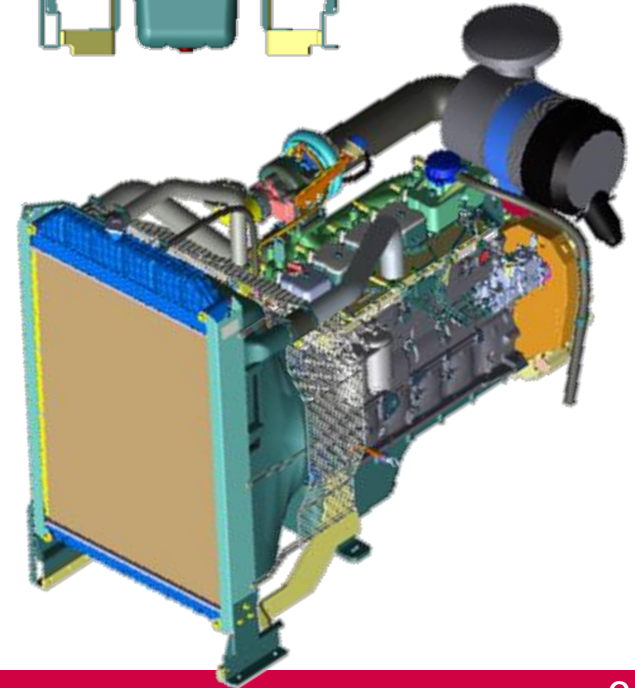
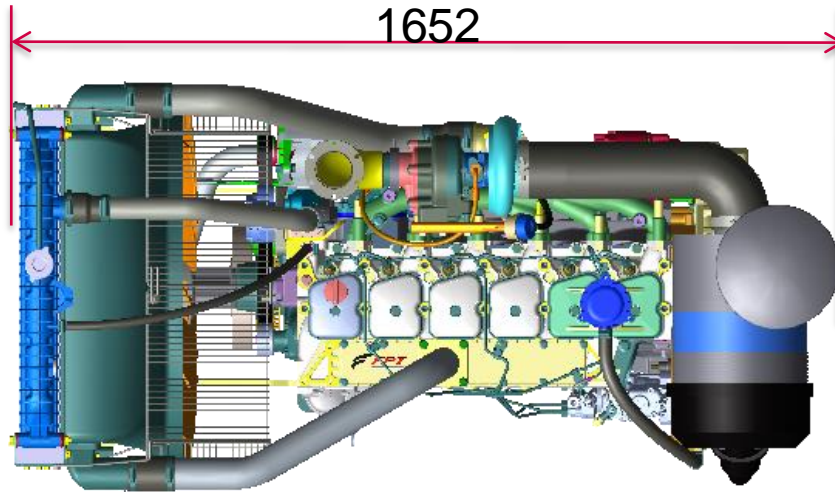
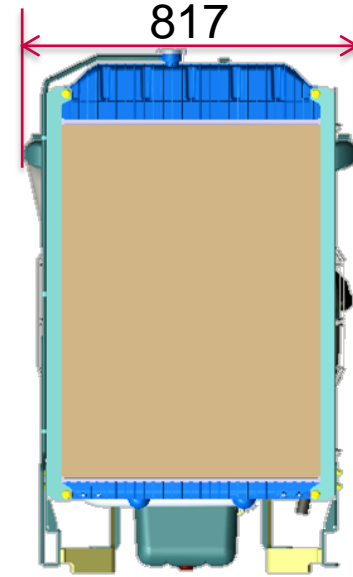
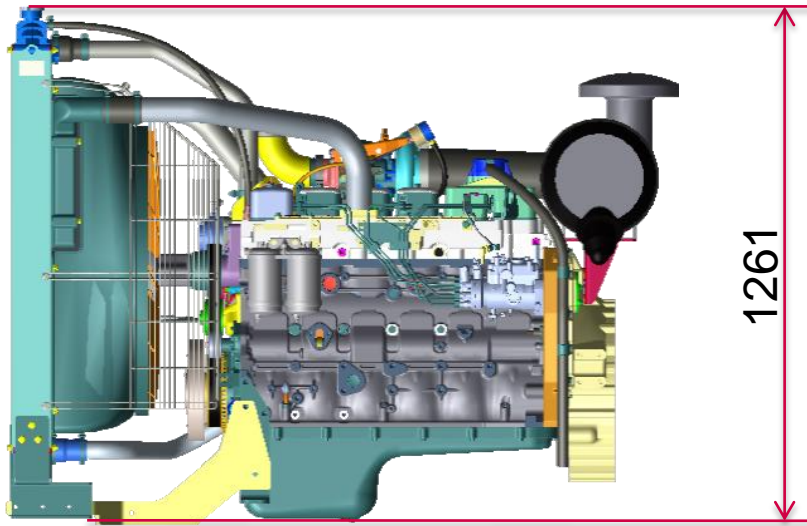
Turbocharges Available
West Gate (WG)

Engine Dress-Up (Optional)
Oil extraction pump
Oil extractwith resorvoir
Resistance to water preheating 120Vca or 230Vca
Protection to the exhaust monifold and turbine
Flexible exhaust pipe
Eletric System to 24 Vdc

# FPTi Engines Portfolio – NEF 67 Mechanic Gdrive - 5801395391



Base Engine Max. Dimensions/Views



# FPTi Engines Portfolio – NEF 67 Mechanic Gdrive - 5801395391



## General Engine Portfolio Variants

<b>FPTi Engines Potfolio</b>						
Description	Characteristics	Variant 1	Variant 2	Variant 3	Variant 4	Variant 5
<b>GENERAL ENGINE CHARACTERISTICS</b>						
Engine Family	NEF	NEF	NEF	NEF	NEF	NEF
Number Cylinder	6	6	6	6	6	6
Displacement L	6.7	6.7	6.7	6.7	6.7	6.7
Emission	Non Emissioned	Non Emissioned	Non Emissioned	Non Emissioned	Non Emissioned	Non Emissioned
Mission (Off-Road or On-Road)	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial
Current Vehicle Application	Gdrive	Gdrive	Gdrive	Gdrive	Gdrive	Gdrive
Segment Application	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial
Footprint	Sete Lagoas	Sete Lagoas	Sete Lagoas	Sete Lagoas	Sete Lagoas	Sete Lagoas
<b>ENGINE BASE CONFIGURATION</b>						
Power (kVA@rpm)	220@1500	145@1500	145@1500	160@1800	175@1500	190@1800
Injection Type@Brand	Injection pump - Delphi	Injection pump - Delphi	Injection pump - Delphi	Injection pump - Delphi	Injection pump - Delphi	Injection pump - Delphi
Engine Speed(rpm)	1800	1800	1800	1800	1800	1800
Voltage (V)	12	12	12	12	12	12
Crankcase	Steel	Steel	Steel	Steel	Steel	Steel
Overhead Cylinder	Iron Cast 4 Valves	Iron Cast 4 Valves	Iron Cast 4 Valves	Iron Cast 4 Valves	Iron Cast 4 Valves	Iron Cast 4 Valves
Dry weight (Including cooling package)	640	640	640	640	640	640
Driven Type	Gear	Gear	Gear	Gear	Gear	Gear
EGR System (Yes or No@Type)	NA	NA	NA	NA	NA	NA
<b>ENGINE DRESS UP</b>						
Turbocharger	WG	WG	WG	WG	WG	WG
Flywheel to Clutch Assembly (Inch)	11' 1/2	11' 1/2	11' 1/2	11' 1/2	11' 1/2	11' 1/2
Flywheel Housing (SAE)	SAE 3	SAE 3	SAE 3	SAE 3	SAE 3	SAE 3
Oil Sump	Yes	Yes	Yes	Yes	Yes	Yes
Starter Mounting	Yes	Yes	Yes	Yes	Yes	Yes
Alternator (Brand@Am)	90	90	90	90	90	90
HWT and LOP sensors	Yes	Yes	Yes	Yes	Yes	Yes
WT and OP Transmitters for instruments	Yes	Yes	Yes	Yes	Yes	Yes
Front Mounted engine support	Yes	Yes	Yes	Yes	Yes	Yes
Front Mounted radiator support	Yes	Yes	Yes	Yes	Yes	Yes
Airheat Exchanger	Yes	Yes	Yes	Yes	Yes	Yes
Mounted Radiator	Yes	Yes	Yes	Yes	Yes	Yes
Fuel Filter	Yes	Yes	Yes	Yes	Yes	Yes
Oil Drain plug	Yes	Yes	Yes	Yes	Yes	Yes
Fan Protection	Yes	Yes	Yes	Yes	Yes	Yes
Fan air mounted with a belt tensioner	Yes	Yes	Yes	Yes	Yes	Yes
Starter	Yes	Yes	Yes	Yes	Yes	Yes
<b>ENGINE PART NUMBER</b>	<b>580135391</b>	<b>5801395390</b>	<b>5801395381</b>	<b>5801395383</b>	<b>5801395382</b>	<b>5801395389</b>

# FPTi Engines Portfolio – NEF6 Mechanic Gdrive Industrial Application

## Main Features & Competitive Advantages

### MAIN FEATURES

- ❑ In-line 6-cylinders
- ❑ Cast iron cylinder block
- ❑ Cast iron cylinder head
- ❑ 2 valve, gear driven OHV
- ❑ Mechanical pump system - Delphi
- ❑ Turbocharger Wastegate
- ❑ Fuel consumption optimized

### COMPETITIVE ADVANTAGES

- ❑ Intake manifold integrated with cylinder head
- ❑ Standard G2 class (ISO 8528-5)
- ❑ Predisposition to apply electronic actuator to increase top level G3 class (ISO 8528-5)
- ❑ temperature cold-start without auxiliary up to -10 °C
- ❑ Engine documentation
- ❑ Production custom-made
- ❑ Interface standard SAE 3 generator
- ❑ small engines
- ❑ complete range of power
- ❑ Compatibility with standard and alternative fuels in accordance with the regulations.