

## Designed for the demands of any application

The NEF 45 engine stands out for performance and reliability, with a lean 4.5-liter, four-cylinder engine design with single-stage turbocharging and no EGR. Thanks to FPT Industrial's pioneering EGR-free combustion and exclusive, patented HI-eSCR 2 after-treatment technology, the NEF Series represents the productivity benchmark in mid-range applications and offers further enhancements in performance and efficiency with newly designed Stage V engines.

### SPECIFICATIONS

|                     |                          |
|---------------------|--------------------------|
| Type Configuration  | Diesel 4 Stroke          |
| Air Handling Bore   | Inline 4 Cylinder        |
| X stroke            | Turbocharged Aftercooled |
| Displacement        | 104 x 132 mm             |
| Compression Ratio   | 4.5 L                    |
| Valves per Cylinder | 17:1                     |
| Rotation Fuel       | 4                        |
| System              | CCW                      |
|                     | Electronic Common Rail   |

### AFTER TREATMENT SYSTEM

|                   |             |
|-------------------|-------------|
| Tier 4F only      | DOC + SCR   |
| Tier 4F / Stage V | DOC + SCRoF |

### PERFORMANCE RATINGS

|                           |                    |
|---------------------------|--------------------|
| 103 kW (138 HP) @2200 RPM | 637 Nm @ 1500 RPM  |
| 125 kW (168 HP) @2200 RPM | 712 Nm @ 1500 RPM  |
| 147 kW (200 HP) @2100 RPM | 744 Nm @ 1400 RPM* |

\*Bare Engine (Tier 4F / Stage V)

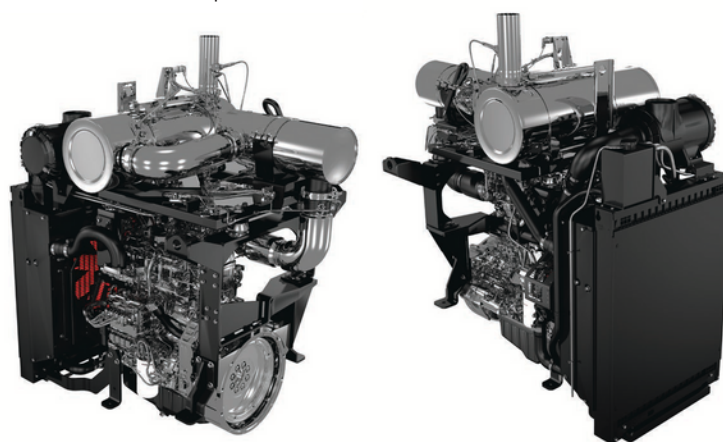
### STANDARD CONFIGURATION \*\*

|                      |                       |
|----------------------|-----------------------|
| Emissions Level      | Tier 4F / Stage V     |
| Flywheel Housing     | SAE 3                 |
| Flywheel Housing Oil | 11.5"                 |
| Sump Voltage         | Front                 |
| Alternator Starter   | 12V / 24V             |
| Powerpack            | 70A 24V               |
| Dimensions           | 3.2 kW / 5.5 kW       |
| Powerpack Weight     | 1409 x 1035 x 1698 mm |
|                      | 725 kg                |

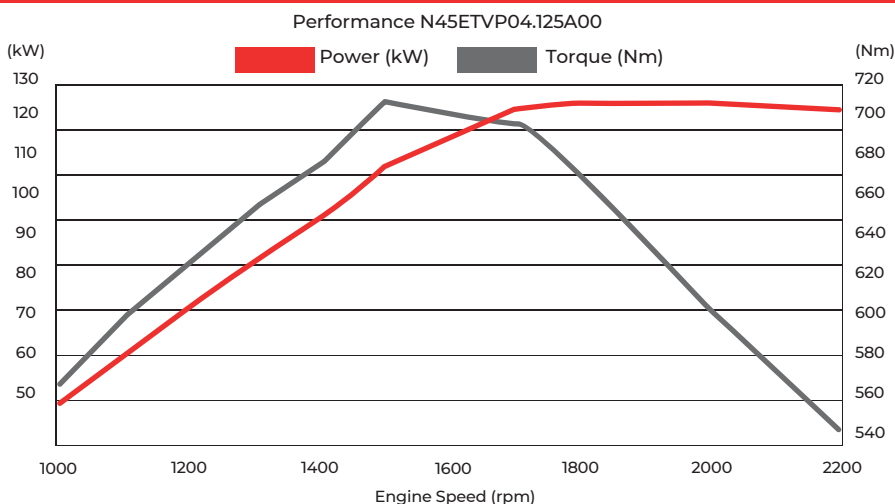
\*\*Flexible configurations are available.

### KEY FEATURES:

- High performance and competitive fuel efficiency
- Hi-eSCR2 technology EGR-free for lower running costs
- DPF-free ATS Tier 4 Final only
- Best-in-class 600-hour service interval maximizes uptime
- Flexible configurations to meet your needs:
  - 4.5-liter displacement
  - Power up to 147 kW (200 HP)
  - Torque up to 744 Nm (549 lb/ft)
- Dual-certified, Tier 4F / Stage V (avoid layout changes)



### ENGINE PERFORMANCE DATA



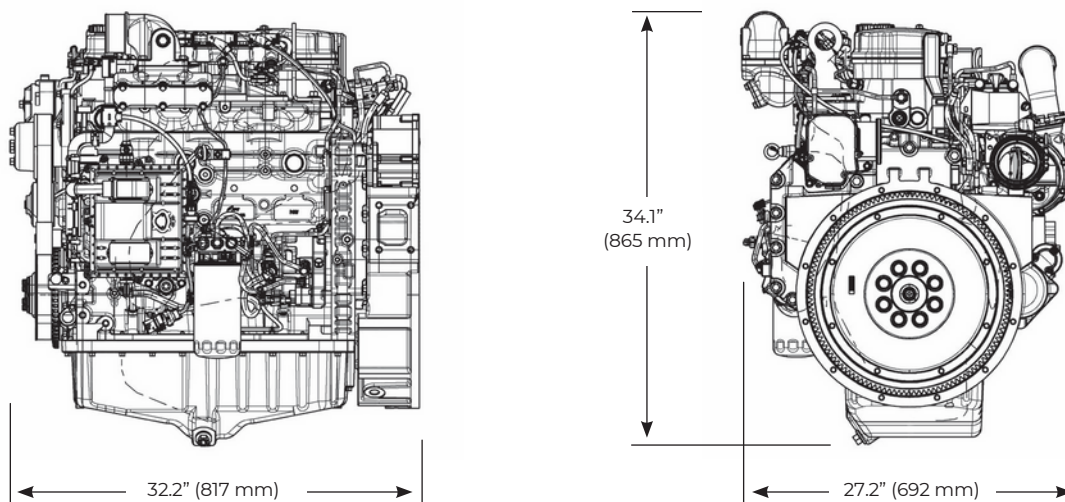
OFF-ROAD INDUSTRIAL

# NEF 45

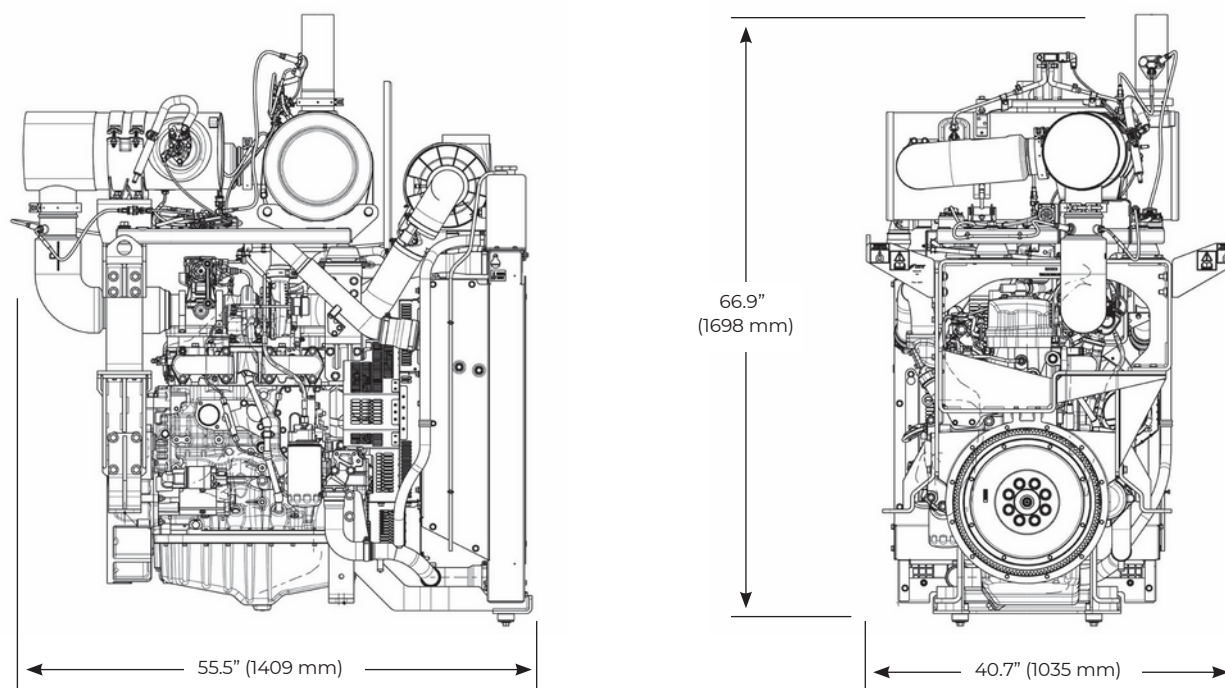
103-147kW(138-200 HP)



NEF 45– Available in Tier 4 Final only and Stage V / T4 Final dual certified



NEF 45 POWERPACK- Available in Stage V / Tier 4 Final dual certified



#### NEWFOUNDLAND & LABRADOR

141 Glencoe Drive  
Mount Pearl, NL | A1N 4S7  
Phone: (709) 726-6774  
Email: [sales@madsenpower.ca](mailto:sales@madsenpower.ca)

#### ONTARIO

30 Voyager Court South  
Toronto, Ontario | M9W 5M7  
Phone: (416) 907-3844  
Email: [sales@madsenpower.ca](mailto:sales@madsenpower.ca)

