



## SPECIFICATION SHEET

Fuel	Rating	Power hp (kW)	Torque ft-lbs (N-m)
Natural Gas	Intermittent	167 (125)	495 (669)
	Continuous	158 (118)	445 (602)
LPG	Intermittent	244 (182)	521 (705)
	Continuous	212 (158)	469 (634)

**Rating Definitions: Rated for 2700 rpm engine speed.** (Corrected per SAE J1349)  
 Intermittent - Applicable for a varying intermittent loads with no overload capability.  
 Continuous - Continuous prime rating is applicable for supplying power to a varying load for an unlimited amount of running time, with 10% overload capacity available for 1 out of every 12 hours.

### STANDARD FEATURES:

Tradewinds Power Corp engine power units are designed, packaged, and tested to meet the power requirements of a wide range of equipment used in agricultural applications. All our systems and components are prototyped, assembled and tested within a purpose built packaging, manufacturing, and test facility.

### Key System Features are:

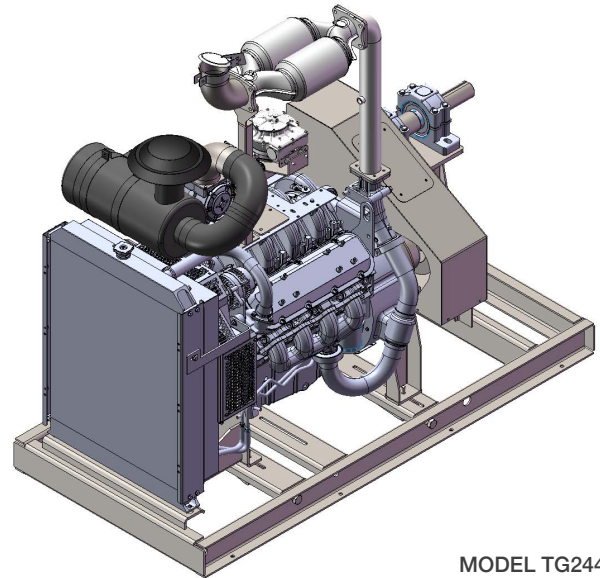
- Engine power units will accept one-step loading
- EPA and CARB certified for Agricultural use
- Four (4) point lifting eyes
- Assembled on integral sub-base with fork lift pockets
- Self contained with mounted exhaust and air-cleaner
- TPC Controller for engine start and stop
- Low oil pressure and high engine temperature fault detection and shut-down protection

### Engine:

- PSI GM8.8L
- Heavy duty rated for continuous prime power operation
- Cooling system capable of operation at 120°F ambient
- Hydraulic lash adjusters with roller finger cam followers
- Even firing order with internal balance shaft to be vibration free
- Broadband knock sensor, calibrated for individual cylinder use
- Coil on plug ignition system for reliable and effective spark delivery
- 12 volt electric start and charging system
- Electronic engine management system with built-in engine protection against detonation, high coolant temperature, low oil pressure, over-speed shutdown, and starter lockout

### Drive System:

- Single engine 2,700 rpm engine reduction drive system
- Pulley arrangement reduces speed to a constant 1800 rpm
- Pulley and belt assembly fully enclosed in guard assembly
- Pedestal drive shaft on robust 2-bearing assembly
- Ease of connection to 2-bearing generator or pump



MODEL TG244R

### Engine Power Unit Arrangement:

- Belts are tighten using all-thread adjustment
- Easily removable belt cover lid
- Oil and water drain lines

### AUTOMATIC ENGINE CONTROLLER:

- CAN-based display with rich, full-color graphics
- Full engine control and safety shut-down monitoring
- Bonded glare-free LCD screen, viewable in direct sunlight
- Easy -to-use configuration software
- Full autostart, manual start, and off controls
- Rugged design for extreme environments



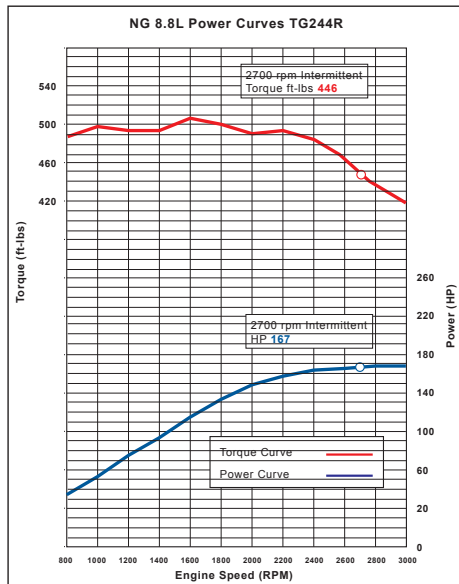
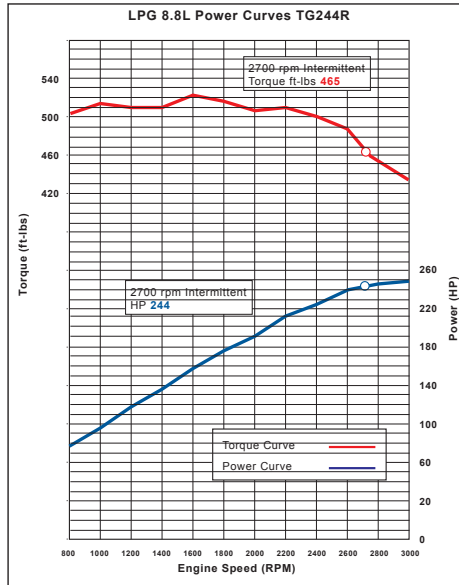
MPC-20  
ENGINE CONTROLLER  
(Available on remote stand)

### WARRANTY:

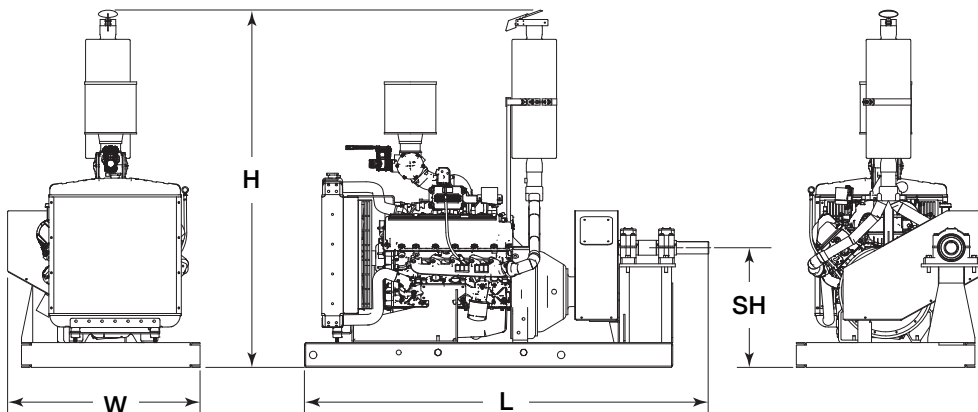
- Engine covered under the original equipment manufacturer's warranty - consult Tradewinds Power Corp for details
- Complete package supplied with one-year unlimited warranty

*The manufacture reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.*

## POWER & TORQUE CURVES



## ARRANGEMENT DRAWING MODEL: TG244R 1800 rpm Shaft



DRIVE ASSEMBLY:	
Configuration	1 x PSI_8.8LNA engines
Drive Connection	Shaft @ 1800 rpm
Operation	Shaft ready for flexible coupling
Pulley Drive Arrangement	Pulley connects two engines
Engine to Drive Shaft Speed rpm	Pulley reduction 2700 to 1800 rpm
Bearings	Pedestal drive shaft bearings
ENGINE SPECIFICATION:	
Manufacturer	GM V-Type
Model	PSI 8.8L NA
Emissions	EPA and CARB certified
Max. (Cont.) HP Power 1800 rpm	LPG 244 (212) NG 167 (158)
Type	Industrial, four-stroke
Combustion system	Electronic Spark Ignition
Aspiration	Naturally Aspirated
Engine type	Natural Gas and LPG spark ignition
Fuel NG (LPG)	NG 1050 BTU/FT3 (LPG HD-5)
Min. NPT Supply Pipe Size NG (LPG) inches	1.25 (0.75)
Cylinder arrangement	V8
Displacement in³ (liters)	535 (8.8)
Bore and Stroke ins (mm)	4.35 X 4.5 (110.5 X 114.3)
Cooling	Liquid
Governor	Electronic
Starting motor & alternator	12 volt
Compression ratio	10.1:1
Air cleaner type	Medium duty dry type
Exhaust Silencer dBA	TBA
Max. Exh temp at full load degrees F (C)	1350 (732)
Max. Exh. Back pressure - ins H2O (kPa)	3 (10.2)
Fuel Filter	Full flow with water separator
COOLING SYSTEM FOR OPERATING AT 120°F AMBIENT:	
Heat Rejection - btu/min (kcal/sec)	4184 (17.58)
Radiator Capacity gallons (Liters)	14.5 (13.7)
ENGINE ELECTRICAL SYSTEM:	
Starting motor voltage	12 volt
Wet Cell Battery	Lead Acid
Cold Cranking Amps - minimum	720 amps
LUBRICATION SYSTEM:	
Oil pan capacity with filter - quarts	8 (7.57)
Recommended lubricating oil grade	SAE 5W-30
Oil consumption at full load	< 0.1% of fuel consumption
Oil pressure - psi (kPa)	250 (121)

KEY DIMENSIONS AND WEIGHT		
Description	Key	Inches
Height	H	69.72
Length	L	81.53
Width	W	38.79
Shaft Height	SH	24.13
Dry Weight lbs (Kg)		1203 (547)

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