



SPECIFICATION SHEET

Fuel	Rating	Power hp (kW)	Torque ft-lbs (N-m)
Natural Gas	Intermittent	317 (236)	945 (1278)
	Continuous	242 (181)	850 (1150)
LPG	Intermittent	425 (317)	1000 (1352)
	Continuous	325 (242)	900 (1217)

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:

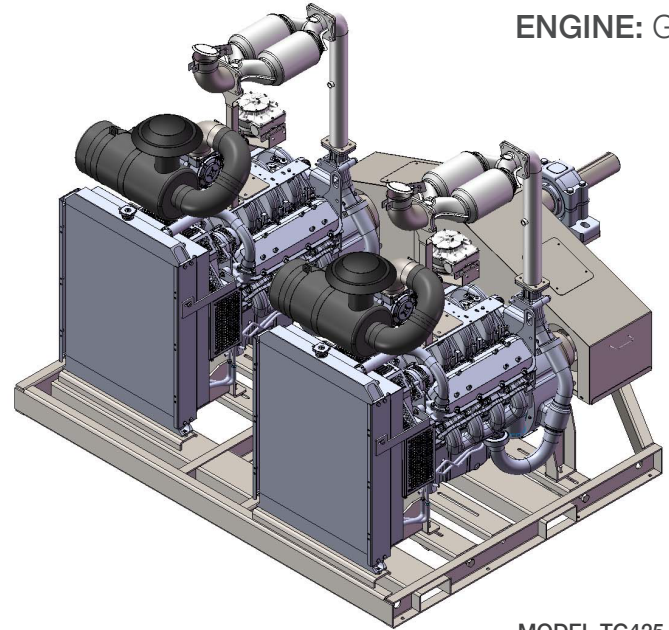
- Engine power units will accept one-step loading
- EPA and CARB certified for Agricultural use
- Four (4) point lifting eyes
- Assembled on integral sub-base with fork lift pockets
- Self contained with mounted exhaust and air-cleaner
- TPC Controller for engine start and stop
- Low oil pressure and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

Engine:

- 2 x 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:

- Twin belt connected 2,400 rpm engines to a common shaft
- 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 TG425

Engine Power Unit Arrangement:

- Each engine assembled side by side with pulley connection
- 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



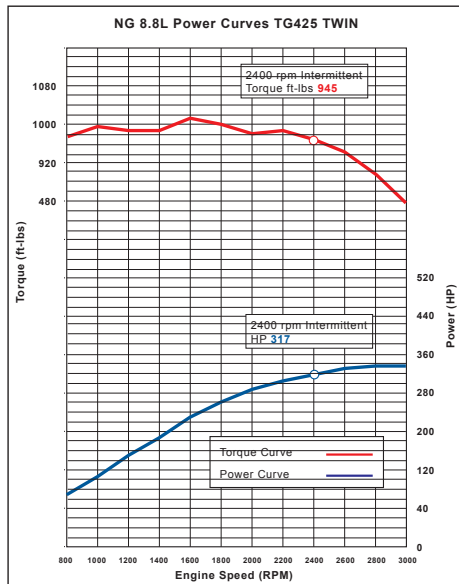
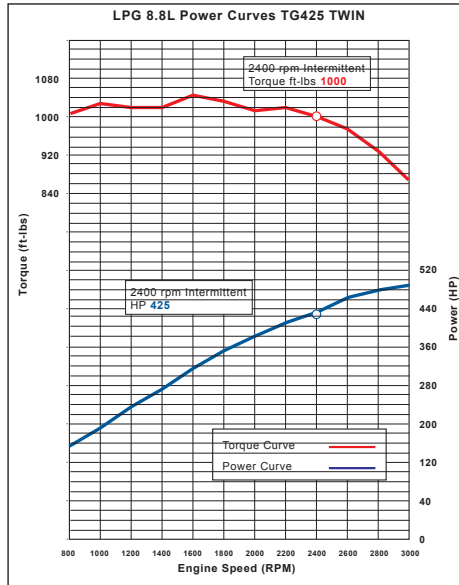
PV 780
ENGINE CONTROLLER
(Available on remote stand)

WARRANTY:

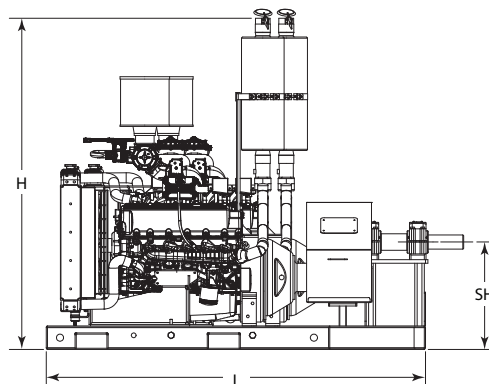
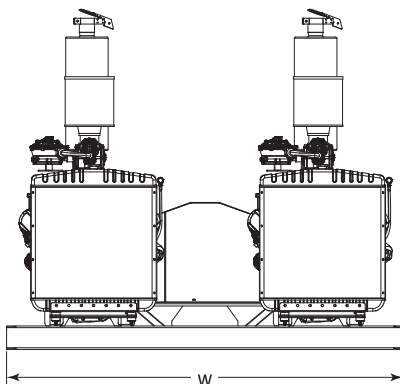
- Engine covered under the original equipment manufacturer's warranty - consult Tradewinds Power Corp for details
- Complete package supplied with one-year unlimited warranty

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: TG425 1800 rpm Shaft



DRIVE ASSEMBLY:	
Configuration	2 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 2400 to 1800 rpm
Bearings	2 x 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 425 (325) NG 317 (242)
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	69.71
Length	L	91.11
Width	W	84
Shaft Height	SH	23.5
Dry Weight lbs (Kg)		2511 (1141)

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