MODEL: TP174-I

FUEL: Diesel

SINGLE ENGINE CLUTCH DRIVE OPU



SPECIFICATION SHEET

Fuel	Rating	Intermittent	Continuous
Diesel	Power: hp (kW) 2200rpm	173.9 (129.0)	156.5 (116.8)
	Torque: ft-lb (N-m) 1400rpm	514 (695)	463 (625)
	Power: hp (kW) 1800rpm	167.6 (125.0)	150.8 (112.5)

Rating Definitions: Intermittent is the horsepower and speed capability of the engine where maximum power and/or speed are cyclic (time at full load not to exceed 50%). The Industrial Continuous engine power rating is for applications that operate with constant load and speed, except for short periods during startup or shutdown. Power output is within + or - 5% at standard SAE J 1995 and ISO3046. (See power curves over)

STANDARD FEATURES:

Tradewinds Power Corp open 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:

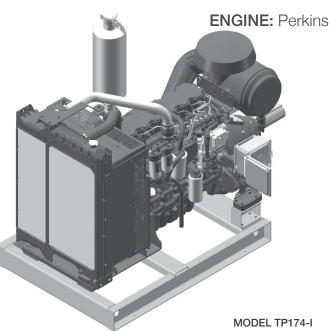
- · Engine power units will accept one-step loading
- · EPA and CARB certified for Agricultural use
- · Designed to meet 2012 EPA Tier 4 Interim
- · Complete package ready to use in all Ag applications
- Self contained with mounted exhaust and air-cleaner
- · MPC Controller for engine start and stop
- Low oil pressure and high engine temperature fault detection and shut-down protection

Engine:

- · Perkins 1106D.E70TA industrial diesel engine
- · Heavy duty rated for continuous prime power operation
- Cooling system capable of operation at 120°F ambient
- · Fuel system is common rail fuel pump and injectors
- A robust electronically controlled common rail engine provides the opportunity to increase power and low speed torque
- The ECM (Electronic Control Module) controls the injection timing through all speeds and loads. The ECM includes sensos for engine speed, oil pressure, and coolant temperature
- · Turbo charged for greater engine output
- The engines are designed and built for dependability and durability, which results in minimum maintenance requirements
- Low cost maintenance is achieved through hydraulic tappets, multi-vee belts and 500 hour oil change intervals
- Design consideration has also been incorporated to facilitate the next emissions change to EU Stage IIIB / EPA Tier 4

Drive System:

- · Clutch directly mounted to flywheel housing
- Twin Disc clutch



Engine Power Unit Arrangement:

- · Engine OPU assembly mounted on steel frame
- · Mounted exhaust, radiator, and air cleaner
- · All rotating surfaces protected with guards
- · Oil and water drain lines.

AUTOMATIC ENGINE CONTROLLER:

- · Automatic engine controller with digital display of all functions
- Quick and easy to install
- · Advanced, rugged, reliable microprocessor-based design
- Full engine monitoring and shut down protection
- · Full autostart, manual start, and off controls
- · 3.8" monochrome, transflective, white backlight LCD



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.

www.tradewindspower.com

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SINGLE ENGINE CLUTCH DRIVE OPU

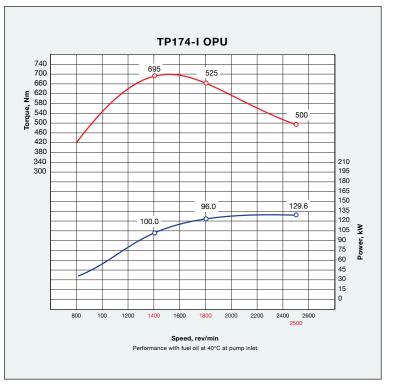
FUEL: Diesel

ENGINE: Perkins

DRIVE ASSEMBLY:				
Configuration	Single engine 1800 rpm clutch drive			
Clutch manufacture	Twin Disc			
Operation	Manual			
Pulley drive arrangement	N.A.			
Drive shaft speed rpm	1800			
Bearings	N.A.			
ENGINE SPECIFICATION:				
Manufacturer	Perkins			
Model	1106D.E70TA			
Emissions	U.S. EPA Tier 3			
Crankshaft speed	2,200 rpm			
Engine Type	In-line, 4-cycle			
Combustion system	Compression			
Aspiration	Turbocharged aftercooled			
Engine type	Diesel Injection			
Diesel fuel grade	ASTM D975 D2			
Number of cylinders	6			
Displacement in ³ (liters)	428 (7.1)			
Bore and stroke ins (mm)	4.13 X 5.3 (105 X 135)			
Peak power hp (kW) @ 2200rpm	173.6 (129.5)			
Cooling	Liquid			
Governor	Electronic ECU			
Compression ratio	16.8:1			
Air cleaner type	Canister air cleaner			
Exhaust Silencer dBA	ТВА			
Max. exh temp at full load degrees PF (PC)	ТВА			
Max. back pressure - ins H2O (kPA)	ТВА			
Fuel filter	Full flow with water separator			
COOLING SYSTEM FOR OPERATING AT 120°F AMBIENT:				
Eng. Cooling air flow - ft³/sec (m³/sec)	ТВА			
Radiator Capacity gallons (Liters)	4.0 (15.2)			

LUBRICATION SYSTEM:				
Oil pan capacity with filter - quarts (Liters)	4.2 (16.0)			
Recommended lubricating oil grade	15W 40			
Oil consumption at full load	< 0.1% of fuel consumption			
Oil pressure – psi (kPA)	46 (320)			
ENGINE ELECTRICAL SYSTEM:				
Starting motor voltage	12 volt			
Wet cell battery	Lead Acid			
Cold cranking amps - minimum	720 amps			

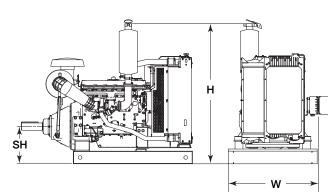
POWER & TORQUE CURVES

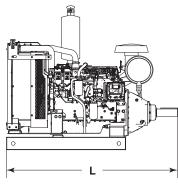


KEY DIMENSIONS AND WEIGHT				
Description	Кеу	Inches		
Height	Н	66.3		
Length	L	81.02		
Width	W	42		
Shaft Height	SH	17.62		
Dry Weight Ibs (Kg)		2312 (1051)		

TRADEWINDS POWER CORP 5820 NW 84th Ave Miami, FL 33166 Office: (800) 223-3289

ARRANGEMENT DRAWING MODEL: TP174-I OPU Clutch Drive





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