

SPECIFICATION SHEET

Fuel	Rating	Intermittent	Continuous
Diesel	Power: hp (kW)	147.6 (110.1)	132.8 (99.1)
	Torque: ft-lb (N-m) 1400rpm	487.0 (660)	438.0 (594.0)
	Power: hp (kW) 1800rpm	134.0 (100.0)	120.6 (90.0)

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 1204F.E44TA 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
- Mechanical rotary fuel pump. The timing and fuel injection pressures are optimized to maximize performance and fuel economy at a given rated speed
- The ECM (Electronic Control Module) controls the injection timing through all speeds and loads. The ECM inckudes 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
- Aftertreatment technology for Teir 4 compliance includes DPF (Diesel Particulate Filter0 and DOC (Diesel Oxidation Catalyst)

Drive System:

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

SINGLE ENGINE CLUTCH DRIVE OPU

FUEL: Diesel



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.



SINGLE ENGINE CLUTCH DRIVE OPU

FUEL: Diesel

ENGINE: Perkins

Configuration	Single engine 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	
Perkins Model (TPC Build#)	1204F-E44TA (MT51853)	
Emissions	2012 EPA Tier 4 Interim	
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	4	
Displacement in ³ (liters)	268.5 (4.4)	
Bore and stroke ins (mm)	4.13 X 5.0 (105 X 127)	
Peak power hp (kW) @ 2200rpm	147.6 (110.1)	
Cooling	Liquid	
Governor	Electronic ECU	
Compression ratio	16.5:1	
Air cleaner type	Canister air cleaner	
Exhaust Silencer dBA	TBA	
Max. exh temp at full load degrees ºF (ºC)	TBA	
Max. back pressure - ins H2O (kPA)	ТВА	
Fuel filter	Full flow with water separator	
COOLING SYSTEM FOR OPERATING AT 120°F A	MBIENT:	
Eng. Cooling air flow - ft³/sec (m³/sec)	TBA	
	2.85 (10.8)	

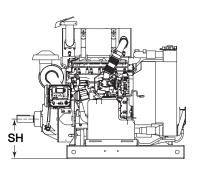
LUBRICATION SYSTEM:				
Oil pan capacity with filter - quarts (Liters)	3.57 (13.5)			
Recommended lubricating oil grade	15W 40			
Oil consumption at full load	< 0.1% of fuel consumption			
Oil pressure – psi (kPA)	46 (320)			
ENGINE ELECTRICAL SYSTEM:				
Starting motor voltage	12 volt			
Wet cell battery	Lead Acid			
Cold cranking amps - minimum	720 amps			

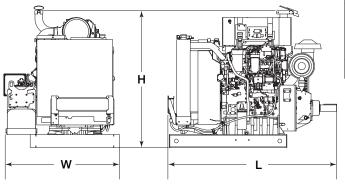
POWER & TORQUE CURVES



ARRANGEMENT DRAWING MODEL:

TP147-I4 OPU Clutch Drive





KEY DIMENSIONS AND WEIGHT				
Description	Key	Inches		
Height	Н	50.25		
Length	L	65.25		
Width	W	43.38		
Shaft Height	SH	15.25		
Dry Weight Ibs (Kg)	1360 (618)			

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