

## SPECIFICATION SHEET

Fuel	Rating	Intermittent	Continuous
Diesel	Max. power: hp (kW)	80.0 (59.7)	72.0 (53.7)
	hp @ 1800 rpm hp (kW)	68.8 (51.2)	62.0 (46.3)
	Torque: ft-lb (N-m) rpm	214-223 (290-302) @1000-1200 rpm	

Rating Definitions: 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
- · Emissions comply with non-regulated markets
- · EPA Tier 1 for compact economic power
- · Complete package ready to use in all Ag applications
- · Self contained with mounted exhaust and air-cleaner
- · TPC Analog controller for engine start and stop
- Low oil pressure and high engine temperature fault detection and shut-down protection

#### Engine:

- · John Deere 4045DF150 industrial diesel engine
- · Heavy duty rated for continuous prime power operation
- · Cooling system capable of operation at 120°F ambient
- Cross flow head design that provides excellent breathing from a lower cost two-valve cylinder head
- Mechanical rotary fuel pump. The timing and fuel injection pressures are optimized to maximize performance and fuel economy at a given rated speed
- When fitted fixed geometry turbochargers are sized for a specific power range and optimized to provide excellent performance across the entire torque curve. They are also designed to maximize fuel economy between the engine's rated speed and peak torque
- · Naturally aspirated engine
- · Self-adjusting poly-vee fan drive
- · 500-hour oil change interval
- · Replaceable wet-type cylinder liners

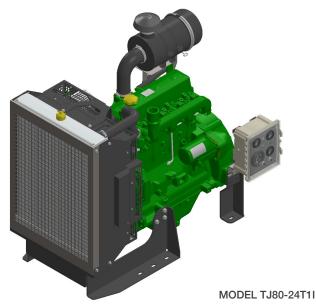
#### Drive System:

SAE coupled and/or PTO Clutch directly mounted to flywheel housing

### SINGLE ENGINE CLUTCH DRIVE OPU

**FUEL:** Diesel

**ENGINE:** John Deere



#### Engine Power Unit Arrangement:

- · IOPU completely assembled from Radiator through Flywheel
- · Mounted exhaust, radiator, and air cleaner
- · All rotating surfaces protected with guards

#### **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



ML1000-4X ENGINE CONTROLLER

#### **WARRANTY:**

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

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



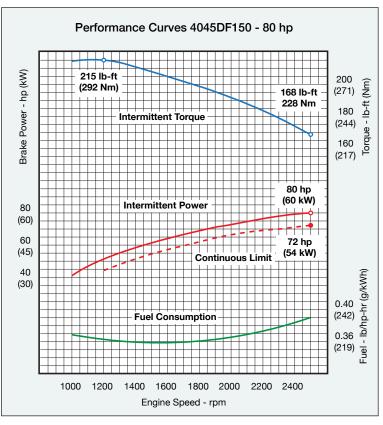
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**FUEL:** Diesel

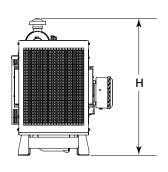
**ENGINE:** John Deere

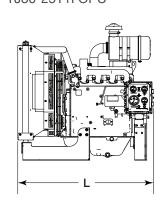
Configuration	Single engine 1800 rpm clutch drive	
Clutch manufacturer	Tradewinds	
Operation	Manual	
Pulley drive arrangement	N.A.	
Drive shaft speed rpm	1800	
Bearings	N.A.	
ENGINE SPECIFICATION:		
Manufacturer	John Deere	
Model	4045DF150	
Emissions	EPA Interim Tier 1	
Continuous HP @ 1800 rpm	62	
Engine Type	In-line, 4-cycle	
Combustion system	Compression	
Aspiration	Naturally Aspirated	
Engine type	Diesel Injection	
Diesel fuel grade	ASTM D975 D2	
Number of cylinders	4	
Displacement in <sup>3</sup> (liters)	276 (4.5)	
Bore and stroke ins (mm)	4.19 X 5.00 (106 X 127)	
Peak power hp (kW) @ 2500rpm	80.0 (59.7)	
Cooling	Liquid	
Governor	Mechanical	
Compression ratio	17.6:1	
Air cleaner type	Canister air cleaner	
Exhaust Silencer dBA	TBA	
Max. exh temp at full load degrees ºF ( ºC	1080 (582)	
Max. back pressure - ins H2O (kPA)	30 (7.5)	
Fuel filter	Full flow with water separator	
COOLING SYSTEM FOR OPERATING AT 120°F	- AMBIENT:	
Coolant flow - gal/min (L/min)	54 (204)	
Radiator Capacity gallons (Liters)	TBA	

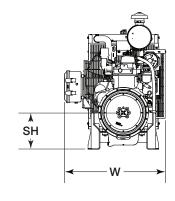
LUBRICATION SYSTEM:				
Oil pan capacity with filter - quarts	ТВА			
Recommended lubricating oil grade	15W 40			
Oil consumption at full load	< 0.1% of fuel consumption			
Oil pressure – psi (kPA)	46 (320)			
ENGINE ELECTRICAL SYSTEM:				
Starting motor voltage	12 volt			
Wet cell battery	Lead Acid	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



# ARRANGEMENT DRAWING MODEL: TJ80-25T1I OPU







KEY DIMENSIONS AND WEIGHT				
Description	Key	Inches		
Height	Н	48.47		
Length	L	45.71		
Width	W	35.00		
Shaft Height	SH	13.00		
Dry Weight Ibs (Kg)	1476.6 (671.2)			

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