

## SPECIFICATION SHEET

Fuel	Rating	kW	kVA
DIESEL	Intermittent	250.0	250.0
	Continuous	225	225
AMPERAGE	240 volt	1042	
Ratings for Single Phase Unity PF 120/240 Volts			

**Rating Definitions: Rated for 1800 rpm.**

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 agricultural generator sets 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:**

- Rugged industrial diesel engine
- EPA certified for Agricultural use
- Unit designed to fit through 48 inch door opening
- Assembled on integral sub-base with lifting eyes and forklift pockets
- Self contained with mounted exhaust and air-cleaner
- Heavy duty exhaust muffler
- Analog control panel
- 15-feet of fuel feed and return rubber hose
- Engine block heater
- Oil and coolant drain lines
- Feed and return fuel lines ¼" NPT x 36"

**Engine:**

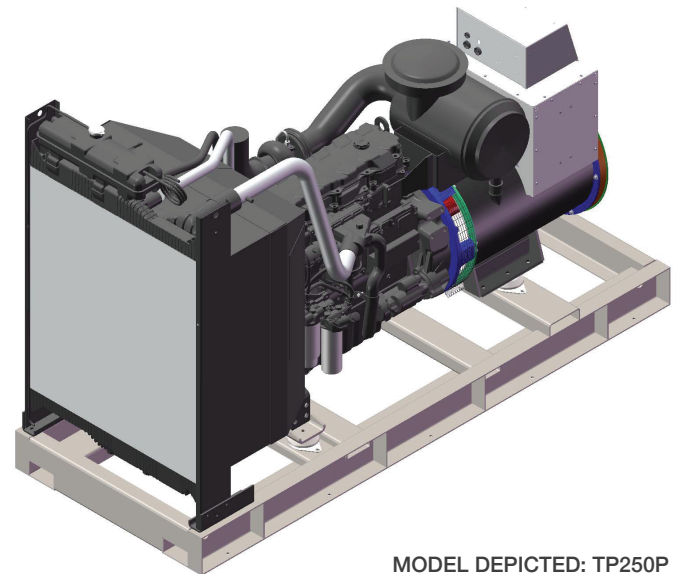
- Perkins 1506D-E88TAG3 diesel engine
- Heavy duty rated for continuous prime power operation
- Cooling system capable of operation at 120°F ambient
- The 1506D utilizes the latest ECM controlled fuel system technology. This allows the 1506D-E88TAG3 to deliver high power density and excellent fuel economy with low exhaust emissions and minimum heat rejection
- The 1506D has been designed to be worldwide fuel tolerant, and 5% bio-fuel (RME) options are available to meet local market needs
- Mounted air filter and turbocharger
- Wet cast iron sump with filler and dipstick

**Alternator:**

- Marathon model 433CSL6220 12-lead alternator
- Wound for high motor starting capability
- Single phase, 120/240 volt

**Arrangement:**

- Engine and generator close coupled together
- Self contained with mounted radiator, exhaust & controls



MODEL DEPICTED: TP250P

**OPTIONAL ACCESSORIES:**

- Above ground fuel tank
- Starter batteries
- Battery heater
- AC alternator strip heater
- Generator main line circuit breaker
- Thomson automatic transfer switch

**AUTOMATIC ENGINE CONTROLLER:**

- Automatic engine controller with analog display of all functions
- Manual emergency toggle switch override, to enable the set to be started quickly in the manual position in case of control panel failure
- Metering for AC voltmeter, AC frequency, percentage of load, and hour meter



ANALOG CONTROL PANEL

**WARRANTY:**

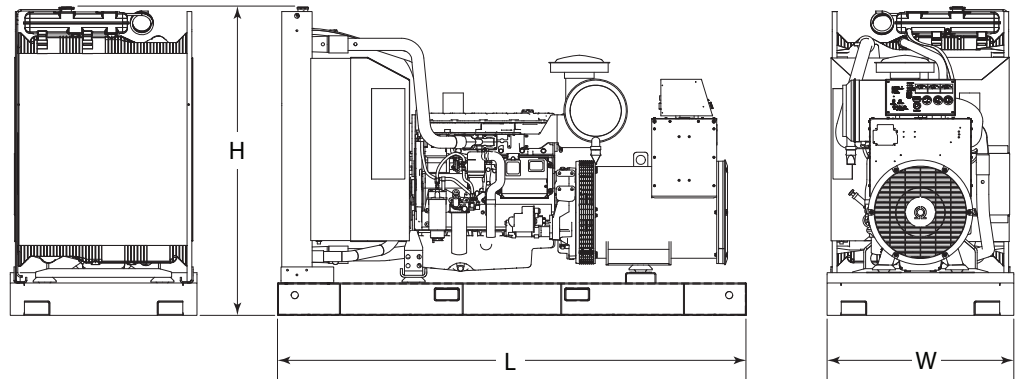
- Engine covered under the original equipment manufacturer's warranty - consult Tradewinds Power Corp for details
- Complete package supplied with 2-year unlimited warranty

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

ENGINE SPECIFICATION:	
Manufacturer	Perkins
Model	1506D-E88TAG3
Emissions	EPA Tier 3
Engine speed (rpm)	1800
Nominal Engine hp 1800rpm	370
Cylinder arrangement	Vertical, in-line
Combustion system	Direct Injection
Aspiration	Air to Air Turbocharged aftercooled
Engine type	Diesel
Diesel Fuel Grade	ASTM D975 D2
Number of Cylinders	6
Displacement in <sup>3</sup> (liters)	537 (8.8)
Bore and Stroke inches (mm)	4.5 x 5.8 (112 X 149)
Cooling	Water-cooled
Governor	HEUI fuel system Electronic control
Starting aids	Glow Plugs
Compression ratio	16.1:1
Air cleaner type	Medium duty dry type
Exhaust Silencer dBA	80dBA
Fuel Filter	Full flow with water separator
COOLING SYSTEM FOR OPERATING AT 120° AMBIENT:	
Cooling System	Water-cooled
Engine Coolant Capacity gals (Liters)	11.89 (45.2)
Fan	Belt driven pusher fan
Radiator	Engine mounted
Coolant grade	TBA
LUBRICATING SYSTEM:	
Total lubricating capacity gals (Liter)	9.0 (41.0)
Recommended lubricating oil grade	SAE 15W40
Oil consumption at full load	< 0.1% of fuel consumption
Maximum Allowable Oil Temperature F (C)	250 (121)

ALTERNATOR:	
Configuration	12-lead with Bolt-on PMG
Frequency	60 Hz
Voltage regulation	+ or - 5%
Phase	Single
Coupling	Flexible half coupling
Bearing	Single
Manufacturer	Marathon
Model	433CSL6220
Voltage Configuration	120/240
Insulation	NEMA Class H
ARRANGEMENT:	
Coupling	Flexible half coupling
Assembly	Close coupled to flywheel flange
Base arrangement	Rigid steel base frame
Lifting capacity	4-lifting eyes
FUEL CONSUMPTION: GALS/HOUR (LITER/HOUR)	
Standby	20.0 (74.0)
Prime Power	17.9 (69.0)
75%	15.9 (59.0)
50%	11.3 (42.0)
ENGINE ELECTRICAL SYSTEM:	
Starting motor voltage	24 volt
Charger	45 A Alternator with DC output
Wet Cell Battery	Lead Acid
ANALOG CONTROL PANEL:	
Analog controls	Auto/Stop/Run/Manual
Manual emergency run switch	Override toggle switch to start
Instrumentation	AC Voltmeter
	AC Frequency Meter
	Percentage of Load
	Hour Meter

KEY DIMENSIONS AND WEIGHT		
Description	Key	Inches
Height	H	75.94
Length	L	106.50
Width	W	44.00
Dry Weight lbs (Kg)		5211 (2368)

**ARRANGEMENT DRAWING MODEL:**  
 TP250P


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