

SPECIFICATION SHEET

| Fuel | Rating | kW | kVA | |
|---|--------------|-------|-------|--|
| DIECEI | Intermittent | 250.0 | 250.0 | |
| DIESEL | 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 1/4" 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:

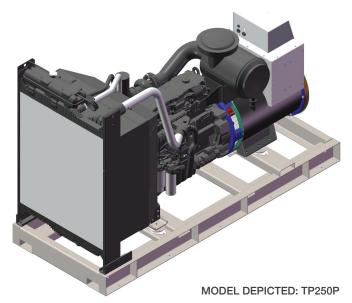
- · Engine and generator close coupled together
- · Self contained with mounted radiator, exhaust & controls

MODEL: TP250P

AGRICULTURAL GENERATOR SET

ENGINE: PERKINS

FUEL: DIESEL



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.





AGRICULTURAL GENERATOR SET

| Engine type Diesel Fuel Grade ASTM D975 D2 Number of Cylinders 6 Displacement in³ (liters) 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 Exhaust Silencer dBA Fuel Filter Full flow with water separator COOLING SYSTEM FOR OPERATING AT 120° AMBIENT: Cooling System Engine Coolant Capacity gals (Liters) Fan Belt driven pusher fan Radiator Coolant grade LUBRICATING SYSTEM: | ENGINE SPECIFICATION: | |
|--|---------------------------------------|-------------------------------------|
| 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 in³ (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 | Manufacturer | Perkins |
| Engine speed (rpm) Nominal Engine hp 1800rpm 370 Cylinder arrangement Combustion system Air to Air Turbocharged aftercooled Engine type Diesel Diesel Fuel Grade Number of Cylinders Displacement in³ (liters) Bore and Stroke inches (mm) Cooling Governor HEUI fuel system Electronic control Starting aids Compression ratio Air cleaner type Exhaust Silencer dBA Fuel Filter COOLING SYSTEM FOR OPERATING AT 120° AMBIENT: Cooling system Engine Coolant Capacity gals (Liters) Total lubricating capacity gals (Liter) Recommended lubricating oil grade SAE 15W40 Oil consumption at full load Vertical, in-line Vertical, in-line Vertical, in-line Vertical, in-line Air to Air Turbocharged aftercooled ASTM D975 D2 ASTM D976 D2 ASTM D975 D2 | Model | 1506D-E88TAG3 |
| Nominal Engine hp 1800rpm Cylinder arrangement Combustion system Air to Air Turbocharged aftercooled Engine type Diesel Diesel Fuel Grade Number of Cylinders Displacement in³ (liters) Bore and Stroke inches (mm) Cooling Governor Starting aids Compression ratio Air cleaner type Exhaust Silencer dBA Fuel Filter Full flow with water separator COOLING SYSTEM FOR OPERATING AT 120° AMBIENT: Cooling System Radiator Engine mounted TBA LUBRICATING SYSTEM: Total lubricating capacity gals (Liter) Recommended lubricating oil grade SAE 15W40 Oil consumption at full load Vertical, in-line Vertical, in-line Vertical, in-line Vertical, in-line Vertical, in-line Vertical, in-line Vertical, in-line Vertical, in-line Vertical, in-line Vertical, in-line Vertical, in-line Vertical, in-line Vertical, in-line Vertical, in-line Air to Air Turbocharged aftercooled Bolesel ASTM D975 D2 ASTM D975 D2 ASTM D975 D2 ASTM D975 D2 ABOUT ASTM D975 D2 ASTM D | Emissions | EPA Tier 3 |
| Cylinder arrangement Combustion system Aspiration Aspiration Engine type Diesel Diesel Diesel Fuel Grade Number of Cylinders Bore and Stroke inches (mm) Cooling Governor Starting aids Compression ratio Air cleaner type Medium duty dry type Exhaust Silencer dBA Fuel Filter Cooling System Engine Coolant Capacity gals (Liters) Fan Belt driven pusher fan Radiator Coolant grade LUBRICATING SYSTEM: Total lubricating capacity gals (Liter) Recommended lubricating oil grade Oil consumption at full load ASTM D975 D2 Air to Air to Air to Air Turbocharged aftercooled ASTM D975 D2 Air to ASTM D975 D2 ASTM | Engine speed (rpm) | 1800 |
| Combustion system Aspiration Aspiration Air to Air Turbocharged aftercooled Engine type Diesel Diesel Diesel Number of Cylinders Displacement in³ (liters) Bore and Stroke inches (mm) Cooling Water-cooled Governor HEUI fuel system Electronic control Starting aids Compression ratio Air cleaner type Exhaust Silencer dBA Fuel Filter Full flow with water separator COOLING SYSTEM FOR OPERATING AT 120° AMBIENT: Cooling System Engine Coolant Capacity gals (Liters) Fan Belt driven pusher fan Radiator Coolant grade LUBRICATING SYSTEM: Total lubricating capacity gals (Liter) Recommended lubricating oil grade SAE 15W40 Oil consumption at full load VSTM D975 D2 Air to Air Turbocharged aftercooled ASTM D975 D2 AST | Nominal Engine hp 1800rpm | 370 |
| Aspiration Air to Air Turbocharged aftercooled Engine type Diesel Diesel Diesel Fuel Grade ASTM D975 D2 Number of Cylinders 6 Displacement in³ (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 | Cylinder arrangement | Vertical, in-line |
| Engine type Diesel Fuel Grade ASTM D975 D2 Number of Cylinders 6 Displacement in³ (liters) Bore and Stroke inches (mm) Cooling Water-cooled Governor HEUI fuel system Electronic control Starting aids Glow Plugs Compression ratio 16.1:1 Air cleaner 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) Fan Belt driven pusher fan Radiator Coolant grade TBA LUBRICATING SYSTEM: Total lubricating capacity gals (Liter) Recommended lubricating oil grade SAE 15W40 Oil consumption at full load very (41.0) SAE 15W40 Oil consumption at full load very (20.1% of fuel consumption | Combustion system | Direct Injection |
| Diesel Fuel Grade Number of Cylinders Displacement in³ (liters) Bore and Stroke inches (mm) Cooling Water-cooled Governor HEUI fuel system Electronic control Starting aids Glow Plugs Compression ratio Air cleaner type Exhaust Silencer dBA Fuel Filter Full flow with water separator COOLING SYSTEM FOR OPERATING AT 120° AMBIENT: Cooling System Water-cooled Engine Coolant Capacity gals (Liters) Fan Belt driven pusher fan Radiator Coolant grade TBA LUBRICATING SYSTEM: Total lubricating capacity gals (Liter) Recommended lubricating oil grade SAE 15W40 Oil consumption at full load ASTM D975 D2 ASTM D975 D2 ASTM D975 D2 ASTM D975 D2 Water-cooled HEUI fuel system Electronic control HEUI fuel system Electronic control HEUI fuel system Electronic control Mater-cooled BodBA Fuel Filter Full flow with water separator Coolant grate Water-cooled Engine mounted TBA LUBRICATING SYSTEM: Total lubricating capacity gals (Liter) 9.0 (41.0) Recommended consumption | Aspiration | Air to Air Turbocharged aftercooled |
| Number of Cylinders Displacement in³ (liters) Bore and Stroke inches (mm) Cooling Water-cooled Governor HEUI fuel system Electronic control Starting aids Glow Plugs Compression ratio Air cleaner type Exhaust Silencer dBA Fuel Filter Full flow with water separator COOLING SYSTEM FOR OPERATING AT 120° AMBIENT: Cooling System Engine Coolant Capacity gals (Liters) Fan Belt driven pusher fan Radiator Coolant grade LUBRICATING SYSTEM: Total lubricating capacity gals (Liter) Recommended lubricating oil grade SAE 15W40 Oil consumption at full load SAE 15W40 Ool of fuel consumption | Engine type | Diesel |
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| Cooling Governor HEUI fuel system Electronic control Starting aids Compression ratio 16.1:1 Air cleaner type Exhaust Silencer dBA Fuel Filter Full flow with water separator COOLING SYSTEM FOR OPERATING AT 120° AMBIENT: Cooling System Water-cooled Engine Coolant Capacity gals (Liters) Fan Belt driven pusher fan Radiator Coolant grade TBA LUBRICATING SYSTEM: Total lubricating capacity gals (Liter) 9.0 (41.0) Recommended lubricating oil grade Oil consumption at full load Vater-cooled Engine Mounted Fingine mounted Fingine mounted Fingine mounted Fingine mounted SAE 15W40 Oil consumption at full load Vater-cooled SAE 15W40 Oil consumption at full load | Displacement in ³ (liters) | 537 (8.8) |
| Governor Starting aids Glow Plugs Compression ratio 16.1:1 Air cleaner type Exhaust Silencer dBA Fuel Filter Full flow with water separator COOLING SYSTEM FOR OPERATING AT 120° AMBIENT: Cooling System Engine Coolant Capacity gals (Liters) Fan Belt driven pusher fan Radiator Coolant grade TBA LUBRICATING SYSTEM: Total lubricating capacity gals (Liter) PEUD (41.0) Recommended lubricating oil grade Oil consumption at full load Abelians System Electronic control Glow Plugs Medium duty dry type Exhaust Silencer dBA 80dBA Full flow with water separator Water-cooled Full flow with water separator Full flow with water sepa | Bore and Stroke inches (mm) | 4.5 x 5.8 (112 X 149) |
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| Compression ratio Air cleaner type Exhaust Silencer dBA Fuel Filter Full flow with water separator COOLING SYSTEM FOR OPERATING AT 120° AMBIENT: Cooling System Water-cooled Engine Coolant Capacity gals (Liters) Fan Belt driven pusher fan Radiator Coolant grade TBA LUBRICATING SYSTEM: Total lubricating capacity gals (Liter) Pool (41.0) Recommended lubricating oil grade Oil consumption at full load August 16.1:1 Full flow with water separator Full flow wi | Governor | HEUI fuel system Electronic control |
| Air cleaner type Exhaust Silencer dBA Fuel Filter Full flow with water separator COOLING SYSTEM FOR OPERATING AT 120° AMBIENT: Cooling System Water-cooled Engine Coolant Capacity gals (Liters) Fan Belt driven pusher fan Radiator Coolant grade TBA LUBRICATING SYSTEM: Total lubricating capacity gals (Liter) Pan 9.0 (41.0) Recommended lubricating oil grade SAE 15W40 Oil consumption at full load August 120° AMBIENT: Full flow with water separator Water-cooled Engine wouthed Fan Selt driven pusher fan Engine mounted SAE 15W40 Oil consumption at full load | Starting aids | Glow Plugs |
| Exhaust Silencer dBA Fuel Filter Full flow with water separator COOLING SYSTEM FOR OPERATING AT 120° AMBIENT: Cooling System Engine Coolant Capacity gals (Liters) Fan Belt driven pusher fan Radiator Engine mounted Coolant grade TBA LUBRICATING SYSTEM: Total lubricating capacity gals (Liter) P.0 (41.0) Recommended lubricating oil grade Oil consumption at full load SAE 15W40 Oil consumption | Compression ratio | 16.1:1 |
| Fuel Filter Full flow with water separator COOLING SYSTEM FOR OPERATING AT 120° AMBIENT: Cooling System Water-cooled Engine Coolant Capacity gals (Liters) Fan Belt driven pusher fan Radiator Coolant grade TBA LUBRICATING SYSTEM: Total lubricating capacity gals (Liter) Recommended lubricating oil grade Oil consumption at full load Full flow with water separator Water-cooled 1.89 (45.2) Fan Belt driven pusher fan Engine mounted TBA LUBRICATING SYSTEM: October 1.80 (41.0) SAE 15W40 Oil consumption at full load Co.1% of fuel consumption | Air cleaner type | Medium duty dry type |
| 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 | Exhaust Silencer dBA | 80dBA |
| Cooling System Engine Coolant Capacity gals (Liters) Fan Belt driven pusher fan Radiator Coolant grade TBA LUBRICATING SYSTEM: Total lubricating capacity gals (Liter) Recommended lubricating oil grade Oil consumption at full load Water-cooled 1.89 (45.2) Belt driven pusher fan Engine mounted TBA UBRICATING SYSTEM: 9.0 (41.0) SAE 15W40 | | |

| 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) | |
| FUEL CONSUMPTION: GALS/HOUR (LITER/HOUR) Standby | 20.0 (74.0) |
| <u> </u> | 20.0 (74.0) 17.9 (69.0) |
| Standby | , |
| Standby Prime Power | 17.9 (69.0) |
| Standby Prime Power 75% | 17.9 (69.0) 15.9 (59.0) |
| Standby Prime Power 75% 50% | 17.9 (69.0) 15.9 (59.0) |
| Standby Prime Power 75% 50% ENGINE ELECTRICAL SYSTEM: | 17.9 (69.0) 15.9 (59.0) 11.3 (42.0) |
| Standby Prime Power 75% 50% ENGINE ELECTRICAL SYSTEM: Starting motor voltage | 17.9 (69.0) 15.9 (59.0) 11.3 (42.0) 24 volt |
| Standby Prime Power 75% 50% ENGINE ELECTRICAL SYSTEM: Starting motor voltage Charger | 17.9 (69.0) 15.9 (59.0) 11.3 (42.0) 24 volt 45 A Alternator with DC output |
| Standby Prime Power 75% 50% ENGINE ELECTRICAL SYSTEM: Starting motor voltage Charger Wet Cell Battery | 17.9 (69.0) 15.9 (59.0) 11.3 (42.0) 24 volt 45 A Alternator with DC output |
| Standby Prime Power 75% 50% ENGINE ELECTRICAL SYSTEM: Starting motor voltage Charger Wet Cell Battery ANALOG CONTROL PANEL: | 17.9 (69.0) 15.9 (59.0) 11.3 (42.0) 24 volt 45 A Alternator with DC output Lead Acid |
| Standby Prime Power 75% 50% ENGINE ELECTRICAL SYSTEM: Starting motor voltage Charger Wet Cell Battery ANALOG CONTROL PANEL: Analog controls | 17.9 (69.0) 15.9 (59.0) 11.3 (42.0) 24 volt 45 A Alternator with DC output Lead Acid Auto/Stop/Run/Manual |
| Standby Prime Power 75% 50% ENGINE ELECTRICAL SYSTEM: Starting motor voltage Charger Wet Cell Battery ANALOG CONTROL PANEL: Analog controls Manual emergency run switch | 17.9 (69.0) 15.9 (59.0) 11.3 (42.0) 24 volt 45 A Alternator with DC output Lead Acid Auto/Stop/Run/Manual Override toggle switch to start |
| Standby Prime Power 75% 50% ENGINE ELECTRICAL SYSTEM: Starting motor voltage Charger Wet Cell Battery ANALOG CONTROL PANEL: Analog controls Manual emergency run switch | 17.9 (69.0) 15.9 (59.0) 11.3 (42.0) 24 volt 45 A Alternator with DC output Lead Acid Auto/Stop/Run/Manual Override toggle switch to start AC Voltmeter |

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)

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ARRANGEMENT DRAWING MODEL: TP250P

