

MODEL: TP80P

AGRICULTURAL GENERATOR SET

FUEL: DIESEL

ENGINE: PERKINS

SPECIFICATION SHEET

Fuel	Rating	kW	kVA	
DIESEL	Intermittent	80.0	80.0	
	Continuous	72	72	
AMPERAGE	240 volt	333		
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
- · 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:

- · Perkins 1104D-E44TAG1 diesel engine
- · Heavy duty rated for continuous prime power operation
- · Cooling system capable of operation at 120°F ambient
- The 1104D utilizes the latest diesel mechanical controlled fuel system technology. This allows the 1104D-E44TAG1 to deliver high power density and excellent fuel economy with low exhaust emissions and minimum heat rejection
- The 1104D 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 4-wire brushless generator
- · 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: TP175P

OPTIONAL ACCESSORIES:

- · Above ground fuel tank
- · Feed and return fuel lines
- · 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.





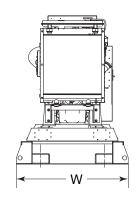
AGRICULTURAL GENERATOR SET

ENGINE SPECIFICATION:				
Manufacturer	Perkins			
Model	1104D-E44TAG1			
Emissions	EPA Tier 3			
Engine speed (rpm)	1800			
Nominal Engine hp 1800rpm	129.8			
Cylinder arrangement	Vertical, in-line			
Combustion system	Direct Injection			
Aspiration	Turbo air-to-air charge-cooled			
Engine type	Diesel			
Diesel Fuel Grade	ASTM D975 D2			
Number of Cylinders	4			
Displacement in ³ (liters)	269 (4.41)			
Bore and Stroke inches (mm)	4.1 x 5 (105 X 127)			
Cooling	Water-cooled			
Governor	Electronic			
Starting aids	Glow Plugs			
Compression ratio	16.2:1			
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)	4.49 (17.0)			
Fan	Belt driven pusher fan			
Radiator	Engine mounted			
Coolant grade	ТВА			
LUBRICATING SYSTEM:				
Total lubricating capacity gals (Liter)	2.1 (8.0)			
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	Brushless, 4-wire	
Frequency	60 Hz	
Voltage regulation	+ or - 5%	
Phase	Single	
Coupling	Flexible half coupling	
Bearing	Single	
Manufacturer	Marathon	
Model	ТВА	
Voltage Configuration	120/240	
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	6.74 (25.5)	
Prime Power	6.26(23.7)	
75%	4.94 (18.7)	
50%	3.57 (13.5)	
25%	ТВА	
ENGINE ELECTRICAL SYSTEM:		
Starting motor voltage	12 volt	
Charger	65 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	Н	52.29		
Length	L	84.09		
Width	W	39.44		
Dry Weight Ibs (Kg)	720 (327)			

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ARRANGEMENT DRAWING MODEL: TP80P

