



**TRADEWINDS**  
GENERATOR SETS

*Power When You Need It!*

**250kW T3 UL2200**

**Generator Set Ratings \* @ 1800 RPM**

VAC	Ph	Hz	Standby		Prime		PF	Amp
			kW	kVA	kW	kVA		
120/208Y	3	60	250	313	222	277.5	0.8	867.44
120/240D	3	60	250	313	222	277.5	0.8	751.78
277/480Y	3	60	250	313	222	277.5	0.8	375.89

\*Stand by ratings are applicable for the duration of any power outage. No overload is available at these ratings. Prime ratings are continuous per BS 5514, DIN 6271, ISO3046 & IEC 34-1. Overload capacity on prime-power ratings is 10% for one hour in each twelve hours of operation. All single phase ratings are based on a 1.0 power factor, three (3) phase ratings based on a 0.8 power factor. Ratings are established based on 85°F ( 29°C ) and an elevation of 1,000 feet ( 305 meters ). Please consult your Tradewinds' representative for information concerning derates for temperature, altitude & humidity.

**Generator Set Features**

**TJ250 T3 Tradewinds** generator set, powered by John Deere diesel engine, four stroke, water cooled. Radiator sized for 120°F ambient clearance. 12VDC Electric start and engine battery charging alternator, battery cables and grounding strap. Dry type air cleaner. AC Alternator, Synchronous, single bearing, direct coupled Alternator NEMA class "H" insulation, 150°F temperature rise, 40°C ambient, 12 or 4 leads, 0.8 or 1.0 power factor lagging, externally voltage regulated. Built in vibration isolators, corner lifting eyes Full Load Factory Test with Safety Shutdowns for High water Temperature and Low Oil Pressure.

**One Complete Operation and Maintenance Manual  
1500 hours Warranty**

**Optional Equipment available**

- Analog and Digital Control panel
- Permanent Magnet Generators (PMG) with Voltage Regulator upgrade PM300 or DVR2000
- Oversized Generator Ends for Motor Starting application
- Space Heater 240/120 V
- Generator Drip Covers
- Special Insulation for Alternator
- Main Line Generator Circuit Breakers
- Shunt Trip for Circuit Breakers
- Industrial Grade Exhaust Silencer
- Critical Grade Exhaust Silencer & SS flex connectors
- **Weather Enclosure**, Marine grade Aluminum 0.125 White Powder Coat paint finish on both sides. Sound Insulation, resistant to high temperatures, fuel and oil. All Stainless Steel Hardware, removable Doors, for easy maintenance, hinged and keyed alike Residential Grade Exhaust kit, inside mounted Oil and coolant drain lines. Air intake and discharge ducts.
- **Sound attenuation** up grade
- Steel sub base
- Steel sub base Tank UL142 listed
- Water Separator Fuel Filter
- Thermostatically controlled Jacket Water Heaters
- Starting Batteries
- Automatic Battery Chargers 5-10 amps
- Automatic Transfer Switches
- 17 Light Remote Annunciator Panel
- Custom Color option



Sample Unit

TJ250T3UL 315

## Engine Specifications

### Model: John Deere 6090HF485

Cylinder: 6 Vertical in Line  
Maximum Power: 385 bhp / 287 kW @ 1800 RPM  
Governor type: Electronic  
Induction system: Turbocharged  
Charge Air cooling system: Air to Air  
Cubic Capacity: 496 in<sup>3</sup> / 8.1 L  
Bore & Stroke: 4.56" x 5.06" ( 77mm x 81mm )  
Starter Motor: 12V  
Alternator: 51 amps, 12V

### Fluids:

Oil capacity: 34 quarts ( 32 litres )  
Coolant capacity: 3.69 gallons ( 14 litres )

### General:

Oil Filter: Spin-on type  
Air Filter: Dry element type

### Fuel specification: EPA2D 89.330-96

### Fuel consumption: US gal. ( Liters ) /hr @ 1800 RPM

	Prime	Standby
25% load -	4.28 ( 16.21 )	4.79 ( 18.16 )
50% load -	7.91 ( 29.94 )	8.74 ( 33.08 )
75% load -	11.65 ( 48.54 )	12.89 ( 48.79 )
100% load -	15.30 ( 57.93 )	17.07 ( 64.61 )



## Alternator Specifications

### Marathon Electric :

Type: Brushless, Self Excited  
Pole: 4P Rotating Field  
Voltage Regulator: SE350  
Voltage regulation: + / - 1%, Volts/ Herz  
Electronic, EMI filtered  
Class Insulation: 'H' to NEMA MG1-22.40  
Temperature Rise: 150C° / 40 C° Ambient  
Coupling: SAE Adapter, Flexible Disc, Direct  
Load acceptance: One Step, 100% per NFPA 110

### Features:

Self ventilated drip-proof construction.  
Superior voltage balance and waveform achieved by unirotor construction and minimized harmonic distortion by a 2/3 pitch winding.  
Vacuum-impregnated windings with fungus-resistant epoxy for dependability and long-life.  
Meets NEMA MG1-32, BS5000, IEC 34-1 standards for temperature rise.  
Sustained short-circuit capability enabling down-line circuit breakers to trip without collapsing the generator field.  
No load to full-load regulation of +/- 2%.  
CE, CSA Certified



Specifications are subject to change without notice

## Control Panel Specifications

Integrated Controller for single unit, manual and remote application, IP65 insulation.

Full generator set monitoring and protection.

User-friendly LCD graphic display via push buttons and LEDs

### Features

- Automatic or Manual start
- Parameters adjustable via keyboard or PC
- 3 phase generator protection
  - Over/under Voltage and Frequency
  - Current/Voltage asymmetry
  - Over current / overload
- Generator measurements at 50 or 60Hz
  - U1-U3, I1-I3, Hz, kW, kVAr, kVArh, kWh
- Battery Voltage and engine speed measurements
- Selectable protections alarm/shutdown
- Configurable analog inputs and outputs
- Event based history file
- Warm-up and cooling functions.
- CAN J1939 or MODBUS communication
  - Capability for engines with ECU

### Options:

RS232 and RS485  
USB and ETH



## Dimension and Weight

### Open Style Unit

L x W x H inches 118" x 51" x 69"

Overall Dry Weight lb. (kg): 5000 (2267.96)

### Enclosed Style Unit dBA @ 7 mts

L x W x H inches 157" x 51" x 77"

Overall Dry Weight lb. (kg): 8570 (3891)

### Note:

The above dimensions and weights would change if a sub-base fuel tank was added.

An electrical Stub area is positioned at the rear of the sub-base fuel tanks. Spacing from rear access cover to the tank is approximately 9 inches (228.6 mm). Dimension applies for both UL and Non UL tanks.

## Authorized Dealer: