



Powered by:  **FPT**
POWERTRAIN TECHNOLOGIES

N45 TM2
4.5 Liter
EPA Tier III

Specifications are subject to change without notice.

Electrical Performance

Voltage	Option 1	Option 2	Phase	Frequency	Amperage(1)	kW	kVa	P.F.
120/240 Zig-Zag	-	X	Single	60 Hz	281	67	67	1.0
120/240 Delta(2)	X	-	Single	60 Hz	187	45	45	1.0
120/208 Low Wye	X	X	Three	60 Hz	312	90	113	0.8
120/240 Delta	X	-	Three	60 Hz	270	90	113	0.8
139/240 Low Wye(3)	-	X	Three	60 Hz	256	90	113	0.8
277/480 High Wye	X	X	Three	60 Hz	135	90	113	0.8

Notes: (1) Maximum current at terminal block. (2) 120/240V 1-PH is available by pulling two phases off the 120/240V Delta connection. (3) 139/240V 3-PH is available with the rheostat adjustment from the 120/208V Low Wye connection. (4) Option 1 and Option 2 are three position switches.

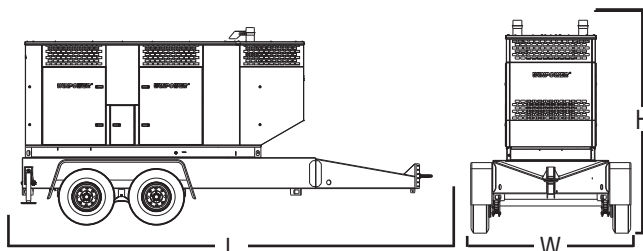
WINPOWER has over 85 years experience manufacturing industrial grade generators. Our mobile diesel units are built to handle standby and prime power applications. We are able to give customers the best long-term value by using high quality components with proven engineering designs. Every WINPOWER generator is manufactured in our Le Center, Minnesota facility.

Engine Specifications

Make	FPT
Model	N45 TM2
Type	Diesel
Gross Horsepower-Standby	133 HP
Injection System	Direct
Speed Governor	Mechanical
Cylinders	4
Total Displacement	4.5 L
Bore x Stroke	4.09 x 5.2 in
Aspiration	Turbocharged/ After cooled
Total Cooling Capacity	4.9 gal
Lube Oil Spec	10W 30 API CF-CH4
Fuel Spec	EN 590
Exhaust Outlet Size @ Muffler	4.0 in
Electrical System (Negative Ground)	12 VDC
Alternator	90 Amps
Battery (Not Included)	BCI 31 900 CCA

Generator Specifications

Rating	125/40°C (Standby)
Type	4 Pole - Revolving Field
Speed	1800 rpm
Insulation System	Class H
Connection	12 Lead
Stator Windings	Double Layer Concentric
Pitch	2/3
Harmonic Distortion	<5%
Efficiency Peak	92.5%
Coupling	Flexible Disc
Bearing (Maintenance Free)	1
Automatic Voltage Regulation	+/- 1.5%



Critical Dimensions (inches)

	L	W	H	LBS
Module w/ Trailer	160	61	94	5500
Module w/out tank	107	40	60	3900

*****74 dB(A)*****

Safety

At WINPOWER, we take safety seriously. The DX90 is designed with numerous safety features that help to protect personnel and equipment.

- Dual circuit breakers for high and low voltage overcurrent protection
- Automatic shutdowns protect the terminal block connections from access during operation
- Automatic shutdown if an operator attempts to change voltages while the generator is operating
- Belts and pulleys are protected from unintentional access with guards
- Sophisticated electronic controls monitor engine and generator parameters to detect problems to warn operators and/or shut down the system

Controller

- Digital control/instrument panel resets safety parameters automatically for the selected voltage
- Lead connections are easy to connect to terminal block
- DC power disconnect switch preserves the battery when the generator is not in use
- Front panel USB connection allows easy access for service
- Front panel voltage adjustment rheostat
- All engine and generator metering is digital

Receptacle Package

- Full overcurrent protection
- 2xNEMA 5-20 GFCI duplex receptacles
- 2x50A Twist-Lock (CS6369C) receptacles
- Full power terminal block
- Shore power allows the standard block heater and battery charger to be powered with a standard extension cord

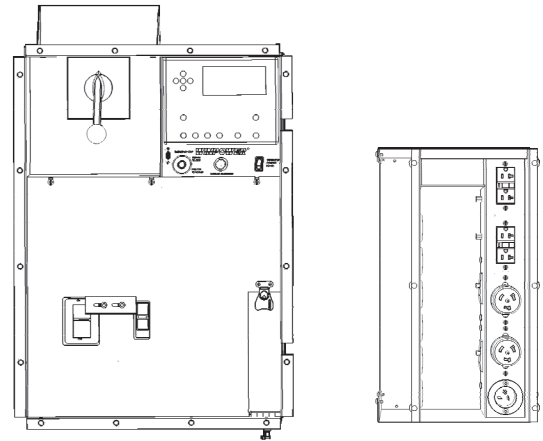
Trailer Features

- DOT approved diesel tank and trailer
- 10,000 lbs GVWR with electric brakes
- 2 5/16" coupler included standard
- Couplers are bolt on allowing the operator to quickly change devices and adjust the coupler height to better accommodate a variety of tow vehicles
- Front and rear stabilizing jacks included standard
- Optional spare tire and steel tool box available
- Tire Size: 225/75 15

Fuel Consumption

100% Load	6.94 Gallons/Hr.
75% Load	5.10 Gallons/Hr.
50% Load	3.57 Gallons/Hr.

*** 175 gallon single wall tank standard



Selector Switch Features

Option 1

- 3 Position: 120/208 3-PH Low-Wye, 120/240 3-PH delta (120/240 1-PH is available using two poles excluding wild leg) 277/480 3-PH High-Wye

Option 2

- 3 Position: 120/240 1-PH Zig-Zag 120/208 3-PH Low-Wye (139/240 3-Ph available with rheostat adjustment) 277/480 3-PH High-Wye

Derating Factors

- Temperature > 104° F: 3% per 10° F
- Altitude > 1000 ft: 3% per 1000 ft
- Prime Power: 10%

Warranty

WINPOWER warrants its products to be free from defects in material and workmanship for one year or 1000 hours. The engine warranty is administered through FPT's service network for one year unlimited hours.

Accessories/Options:

- Battery Charger (Standard)
- Block Heater (Standard)
- Two Wire Start (Standard)
- 300 Gallon Fuel Tank
- Cam-Lock
- 3" Pintle
- 50 A Twist-Lock Plug
- Cam-Lock Plug
- Spare Tire
- Tool Box