



# FDD500S

	Prime Power	Standby Power
Rated Power	400 kW 500 kVA	440 kW 550 kVA
Fuel Consumption	103.7 L/hr	114.0 L/hr
Phase / Wire	3 Phase / 4 Wire	
Standard Voltage	400 / 230 V	
Available Voltage	380 / 220 V ; 415 / 240 V	
PF. (Cos Φ)	0.8	

Note: Alternator rating may change at different voltages settings

### Engine Technical Parameters

Engine model	T440D2
Bore x Stroke	126 x 166 mm
Cylinder - Configuration	6 - In Line
Compression ratio	17.0 : 1
Displacement	12.6 L
Governor	Electronic
Air intake type	Turbocharged, Air-to-air charge cooled
Speed regulating rate	0 - 5%
Brake-specific fuel consumption	194 g/kWh
BSFC @oil rated condition	≤ 0.7 g/kWh
Rated speed / frequency	1,500 rpm / 50 Hz
Noise	≤ 117 dB
Smoke	≤ 2 FSN

### Alternator Technical Parameters

Alternator model	F 544D
Number of bearing	Single bearing
Standard winding connections	Star-serie
Rated output / Frequency	500 kVA / 50 Hz
Insulation	H-Class
Enclosure	IP-23
Excitation system	Self excited, brushless
Voltage regulator	AVR (Electronic)
Coupling system	Flexible disc
Coating type	Manufacture standard

**FEDERAL Generators** protect the things that power your life by providing quality, affordable power solutions. We have focused primarily on power generation, and we now offer more generator solutions than any other manufacturer. That heritage has helped make us the number one choice in power generating and emergency standby power, chosen seven to one over the closest competition. When you choose **FEDERAL Generators**, you're choosing to have peace of mind and the power to live.

### Rating Definitions

#### Prime Power (PRP)

According to ISO8528-1, prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during at 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

#### Standby Power (ESP)

According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. No overload capability is available.

### Standard Reference Conditions

Standard reference condition 25°C [77°F] air inlet temp, 1000m (328ft) A.S.L 30% relative humidity. Fuel consumption data with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998, Class A2.

\* Some of the specifications are not standard on all genset model

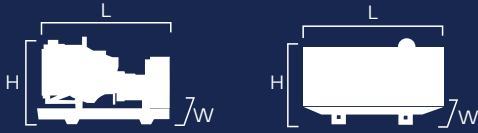


# FEDERAL

## GENERATOR

PRODUCT OF ARVON CORP INTERNATIONAL

### WEIGHT & DIMENSION

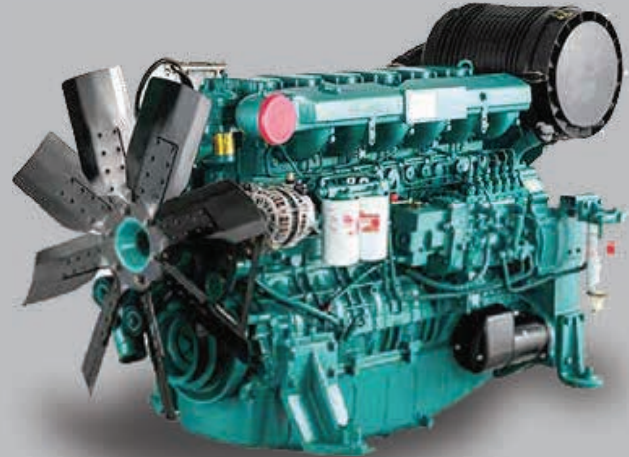


#### Open type

#### Silent type

3,000	Length (mm)	3,800
1,300	Width (mm)	1,600
2,000	Height (mm)	2,100
3,000	Weight (kg)	3,750
622	Fuel Tank (Liters)	622

Note: Weight and dimensions are subjected to change prior product improvements



### Genset Control Panel



Make **FEDERAL**  
Model **D52D MK3**

Mains/Generator Automatic Switching Control

### Performance & Characteristics

- Powered by Dual Core 32bit high performance single chip microcomputer
- 3.5 inch 240 x 128 high resolution LCD screen
- Indicator and number display through the screen
- Screen protector with Acrylic material
- Silicon panel
- USB port to monitor in real time even without power
- RS485 comm port, "Three Remote" functions via MODBUS protocol
- Real time clock: preset time operate and auto maintenance is available
- Maintenance countdown function, can set maintenance date and time
- etc.

### Disclaimer

This document is not contractual - The **TANEKO**<sup>®</sup> and its affiliate companies reserves the right to modify any of the characteristics stated in this document without notice, in a constant effort to improve the quality of its products. \*ISO 8528.

**TANEKO**<sup>®</sup> Industrial Generator products are compliant with ISO 9001 and CE standard, which include the following directives:

- 2006/42/EC Machinery safety
- 2006/95/EC Low voltage
- EN 60204-1: 2006+A1: 2009, EN ISO 12100: 2010, EN ISO 13849-1: 2008, EN 12601 : 2010

Weights and dimensions based on standard products. Illustrations may include optional equipment.

Technical data described in this catalogue correspond to the available information at the moment of printing.

### Genset Version

- Steel chasis, with integrated fuel tank and fuel tank drain plug
- Fuel level gauge
- Emergency stop button
- Anti-vibration shock absorber
- High mechanical strength
- Epoxy polyester powder coating
- Steel residential silencer - 20 dB(A) attenuation
- Battery charger
- General chasis

### Options & Accessories

#### OPTIONS:

- Water jacket Heater
- Radiator water level sensor
- Oil heater
- Heavy duty air filter
- Alternator pre-heater
- Winding temp. measuring instrument
- PMG/AREP/MAUX

#### ACCESSORIES:

- Genuine spare parts
- Load banks
- Auxiliary fuel tanks
- Heavy duty air filter
- Manual & automatic transfer switches

Distributed by:



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