

# SHANGHAI TANON POWER CO LTD

# **Diesel Generating Set TNFM-500**

50Hz

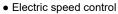
## **General Features**

Engine C13 TE6
 Alternator ECO40 2S4A
 Controller DSE7320

FPT Made in Italy Mecc Alte Made in China Deepsea Made in UK



Picture is only for reference



- 24V starting batteries, maintennance-free type, connecting cables
- Equipped with CHINT MCCB;ABB in Option
- Equipped with industrial silencer and flexible exhaust hose
- Radiator 40°C max, fans are driven by belt with safety guard

Prime power
Standby power

360kW/450kVA

400kW/500kVA



- 28V charge dynamo
- Equipped with 8-hours operation base tank
- Design comply to ISO8528/GB2820
- Absorber (anti instant braking)
- User manual, Packing list

### **General Ratings**

Voltage	Prime	F	Power Standby		Frequency	Phase	P.F (COS¢)	Prime Current
	kw	kva	kw	kva	(Hz)		$(COS_{\mathcal{V}})$	(A)
415/240V	360	450	400.0	500	50	3	0.8	626.1
400/230V	360	450	400.0	500	50	3	0.8	649.5
380/220V	360	450	400.0	500	50	3	0.8	683.7

### Prime power

This rating is for the supply of continuous electrical power at variable load. A 10% overload capability is available for a period of 1 hour within each 12-hour peiord of operation.

### Standby power

This rating is for the supply of continuous electrical power at variable load in the event of utility power failure.

No overload is permitted.

#### Rated voltage

Available with customers requirements.

### **Sales Promise**

TANON POWER provides a full line of 100% brand new and high quality products.

Each and every unit is strictly factory tested before delivery.

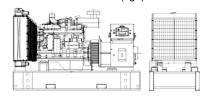
Warranty is according to below standard conditions, subject to the earlier one.

- 1. 13 months, counted on the day TANON sold to the first buyer.
- 2. One year after installation.
- 3. 1000 running hours.

Service and parts are available from TANON or distributors in your location.

### **Dimension And Weight**

Open frame Size(L×W×H):3200×1150×2200(mm) N.W.:3400 (kgs)



Silent with Canopy Size(L×W×H):4500×1700×2250(mm) N.W.:5000 (kgs)







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Engine Specifications					
1	Engine model	C13 TE6			
2	Engine manufacturer	FPT			
3	Number of cylinders	6			
4	Cylinder arrangement	Vertical in line			
5	Cycle	4 stroke			
6	Aspiration	Turbocharged aftercooled air/air			
7	Bore×Stroke(mm×mm)	135 x 150			
8	Displacement (Liter)	12.88			
9	Compression Ratio	16.5:1			
10	Prime power/speed (kW/RPM)	395/1500RPM			
11	Standby power/speed (kW/RPM)	435/1500RPM			
12	Speed governor	CR			
13	Cooling system	Water-cooled			
14	Coolant capacity (engine only) (L)	19.5			
15	Steady speed droop (%)	≤5%			
16	Total lubrication system capacity (L)	32			
17	Oil consumption (% of fuel)	<0.1%			
18	Fuel consumption at 100% load (L/H)	89.9			
19	Fuel consumption at 80% load (L/H)	72.5			
20	Fuel consumption at 50% load (L/H)	51.8			
21	Starter motor	2x12Vx200Ah×4.53kW			
22	Dynamo	28V×90A			

## **Alternator Specifications**

Compliance with GB755,BS5000,VDE0530,NEMAMG1-22,IED34-1,CSA22.2 and AS1359

1	Alternator model	ECO40 2S4A
2	Alternator manufacturer	Mecc Alte
3	Exciter type	Single bearing, Brushless, Self-excited
4	Rated output prime power	450KVA
5	Rated speed	1500 RPM
6	Rated frequency	50 Hz
7	Phase	3
8	Rated voltage	415V/240V, 400V/230V, 380V/220V
9	Power factor	0.8
10	Voltage adjust range	≥5%
11	Voltage regulation NL-FL	≤±1%
12	Insulation grade	Н
13	Protection grade	IP23

Alternator option

Mecc Alte, Stamford, TANON

# Main Electrical Performance Data

Voltage				Frequency			
Stable Regulation rate	Fluctuation	Recover time	Instantaneous Regulating rate	Stable regulation rate	Instantaneous regulating rate	Recover time	Fluctuation
+/-2.5%	0.5%	1.5s	+20%/-15%	+5%	+/-10%	5S	0.5%



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Control System			
Deepsea (UK)	Model		DSE7320
Protection	Parameter		РНОТО
Low oil pressure	<ul><li>Volt</li></ul>	• oil pressure	
High water temp	<ul><li>current</li></ul>	• oil temp	DEEP MARKETONICS DATES
Over speed	<ul><li>power</li></ul>	<ul> <li>power factor</li> </ul>	DSE
over crank	<ul><li>speed</li></ul>	<ul><li>running time</li></ul>	
Over load	<ul><li>frequency</li></ul>	water temp	<b>1</b> 144
Over/low volt		<ul> <li>battery voltage</li> </ul>	<b>◎ ⑥ ⑥ ◎ ◎ ○ 0</b>
Over/low frequency			
Battery charge failure			

## Option

**Generator Set** 

□ Trailer generator set

□ ABB MCCB circuit breaker

□ 50°C Radiator

Fuel system

□ 12 hours base fuel tank

□ 24 hours base fuel tank

□ Dual wall base fuel tank

□ External fuel tank

**Exhaust system** 

□ Residential exhaust silencer

Alternator

□ PMG excitation

□ Anti Condensation Heater

For cold area

□ Water heater

□ Oil heater

□ Rapid water preheater (diesel burner)

Auto system

□ Remote Control panel

□ ATS control cabinet

□ Paralleling System

#### **External ATS**



#### 220V water heater



### Diesel powered heater



220V Oil heater Syn. Cabinet



Parker separator



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TANON POWER reserves the right to change the specifications and design without notice.



ISO9001:2008 TANON POWER Diesel Generating Set