

SHANGHAI TANON POWER CO LTD

Diesel Generating Set TNPS-59

60Hz

43.2kW/54kVA

47.2kW/59kVA

General Features

- Engine
- Alternator
- Controller

1103A-33TG1 PI144K DSE6020

Perkins Made in UK Stamford Made in China Deepsea Made in UK

89 Perkins



- Electric speed control
- 12V 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
- 12V charge dynamo

Prime power

Standby power

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

General Ratings

	Power				Frequency		P.F	Prime Current
Voltage	Prime		Standby		riequency	Phase	(COS¢)	Thine ourient
	kw	kva	kw	kva	(Hz)		(000¢)	(A)
220/380V	43.2	54.0	47.2	59.0	60	3	0.8	82.0
230/400V	43.2	54.0	47.2	59.0	60	3	0.8	77.9
240/415V	43.2	54.0	47.2	59.0	60	3	0.8	75.1
254/440V	43.2	54.0	47.2	59.0	60	3	0.8	70.9

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 POWER sold to the first buyer.

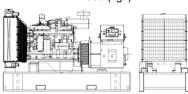
2. One year after installation.

3. 1000 running hours.

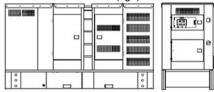
Service and parts are available from TANON POWER or distributors in your location.







Silent with Canopy Size(L*W*H):2280*950*1510(mm) N.W.:1000(kgs)



CE





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Engine Specifications					
Lingino					
1	Engine model	1103A-33TG1			
2	Engine manufacturer	Perkins UK			
3	Number of cylinders	3			
4	Cylinder arrangement	Vertical in line			
5	Cycle	4 stroke			
6	Aspiration	Turbo			
7	Bore×Stroke(mm×mm)	105×127			
8	Displacement (Liter)	3.3			
9	Compression Ratio	17.25:1			
10	Prime power/speed (kW/RPM)	52.5/1800RPM			
11	Standby power/speed (kW/RPM)	57.4/1800RPM			
12	Speed governor	Mechanical			
13	Cooling system	Water-cooled			
14	Coolant capacity (engine only) (L)	10.2			
15	Steady speed droop (%)	≤5%			
16	Total lubrication system capacity (L)	7.9			
17	Oil consumption (% of fuel)	<0.15%			
18	Fuel consumption at 100% load (L/h)	9.4			
19	Fuel consumption at 75% load (L/h)	7.6			
20	Fuel consumption at 50% load (L/h)	5.9			
21	Starter motor	12v			
22	Dynamo	12V			
	,				

Alternator Specifications

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

1	Alternator model and Prime Power	PI144K
2	Alternator manufacturer	Stamford
3	Exciter type	Single bearing, Brushless, Self-excited
4	Rated speed	1800 RPM
5	Rated frequency	60 Hz
6	Phase	3
7	Rated voltage	440V
8	Power factor	0.8
9	Voltage adjust range	≥5%
10	Voltage regulation NL-FL	≤±1%
11	Insulation grade	Н
12	Protection grade	IP23
11	Insulation grade	н

Alternator option

Mecc Alte, Stamford, TANON POWER

Main Electrical Performance Data

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





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Control System Model DSE6020 Deepsea (UK) Parameter рното Protection • oil pressure Low oil pressure Volt • oil temp High water temp • current Over speed • power power factor • over crank • speed running time Over load frequency water temp Over/low volt battery voltage • 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

External ATS







□ Remote Control panel

□ ATS control cabinet

□ Paralleling System

Alternator

PMG excitation

For cold area Water heater

Oil heater

Auto system

Anti Condensation Heater



□ Rapid water preheater (diesel burner)

220V Oil heate Syn. Cabinet

Parker separator



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



