

**Diesel Generating Set TNCS-50G2**

60Hz

**General Features**

- Engine 4BT3.9-G2 Cummins Made in China
- Alternator PI144J Stamford Made in China
- Controller DSE7320 Deepsea Made in UK



Prime power(kw/kva)	36/45
Standby Power(kw/kva)	40/50

- Electric speed control
- 24V starting batteries, maintenance-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

- 24V 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	Power				Frequency (Hz)	Phase	P.F (COSφ)	Prime Current (A)
	Prime		Standby					
	kw	kva	kw	kva				
132/230V	36.0	45.0	40.0	50.0	60	3	0.8	113.0
220/380V	36.0	45.0	40.0	50.0	60	3	0.8	68.4
230/400V	36.0	45.0	40.0	50.0	60	3	0.8	65.0
254/440V	36.0	45.0	40.0	50.0	60	3	0.8	59.0

**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 period 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.

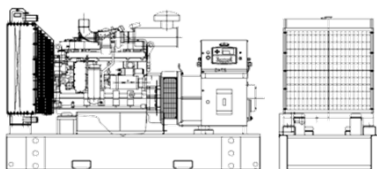
Warranty is according to below standard conditions, subject to the earlier one.

1. 13 months, counted on the date of Bill of lading
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):1750\*800\*1350(mm)  
N.W.:880 (kgs)



**Silent with Canopy**  
Size(L\*W\*H):2280\*950\*1510(mm)  
N.W.:1150(kgs)



**Engine Specifications**

1	Engine model	4BT3.9-G2
2	Engine manufacturer	DCEC
3	Number of cylinders	4
4	Cylinder arrangement	Vertical in line
5	Cycle	4
6	Aspiration	Turbo Water Cooling
7	Bore×Stroke(mm×mm)	102×120
8	Displacement (Liter)	3.9
9	Compression Ratio	16.5:1
10	Prime power/speed (kW/RPM)	40/1800RPM
11	Standby power/speed (kW/RPM)	44/1800RPM
12	Speed governor	Electric
13	Cooling system	Positive Water Cooling Cycle
14	Coolant capacity (engine only) (L)	8.00
15	Steady speed droop (%)	1%
16	Total lubrication system capacity (L)	9
17	Oil consumption (% of fuel)	0.15% of fuel consumption
18	Fuel consumption at 100% load (L/h)	9.1
19	Fuel consumption at 75% load (L/h)	7.3
20	Fuel consumption at 50% load (L/h)	5.5
21	Starter motor	24v
22	Dynamo	24v

**Alternator Specifications**

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

1	Alternator model and Prime Power	PI144J
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	400V
8	Power factor	0.8
9	Voltage adjust range	≥5%
10	Voltage regulation NL-FL	≤±1%
11	Insulation grade	H
12	Protection grade	IP23


**Alternator option**

Mecc Alte, Leroy Somer, Stamford copy

**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%

Control System

Deepsea (UK)	Model	DSE7320
<b>Protection</b>	<b>Parameter</b>	<b>PHOTO</b>
● Low oil pressure	● Volt	
● High water temp	● current	
● Over speed	● power	
● over crank	● speed	
● Over load	● frequency	
● Over/low volt		
● Over/low frequency		
● Battery charge failure		
	● oil pressure	
	● oil temp	
	● power factor	
	● running time	
	● water temp	
	● battery voltage	

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 heated Syn. Cabinet



Parker separator



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