TEREX DIESEL

YANGDONG

DIESEL GENERATOR SET

TRX YD TA 0050-60 HZ

WATER COOLED | 1-3 PHASE | 60 Hz | DIESEL

Service		Standby	Prime
Power	*kVA*	56	51
Power	*kW*	45	41
Motor Speed	*r.p.m*	1800	
Voltage	*V*	480/277	
Power Factor	*Cos Phi*	0,8	

Standby power; In standby operation, the load value defined in the document defines the annual usage at an average load of 70% under variable load conditions. Overloading is not allowed. Standby power is 10% more than prime power. It is used as backup power in areas where grid power infrastructure is available.

Prime operation; Unlimited hours of use throughout the year with an average load factor of 70% of the power defined in the document during a 24-hour operation period. Overloading is allowed for a maximum of 1 hour in variable periods every 12 hours of operation.This does not include continuous operation for 1 hour under overload.

Continuous operation; Unlimited hours of use of the entire defined power (100%). Overloading above the defined power is not allowed. It is for use in areas without grid power.

QUALITY STANDARDS

Our generators comply with VDE 0530, BSE 4999 BS5000, IEC 34, EN12601; EN60204-1; TS ISO 8528-1 ... -13; EN12100-1; EN12100-2; EN61000-6-4; EN61000-6-2; EN61000-4-11; EN61000-4-6; EN61000-4-5; EN61000-4-2; EN55011; EN55016-2-1; EN55016-2-3; EN61000-3-2; EN61000-3-3; EN55014-1; EN61000-6-2; EN61000-4-3; EN61000-4-4; Manufactured in accordance with EN61000-4-8; EN61000-4-11; TS EN ISO 3744; TS EN ISO 3746; TS EN 60034-1; TS EN 60034-22; TS EN ISO 3046; BS 5514; NEMA MG 21; IEC 60034, BS 4999/5000, TS EN 60947-1..4 standards.

ISO 9001-2015, ISO 14001-2015, ISO 45001-2018 and ISO 1002-2006 management system certificates have been obtained with accreditation from TUV AUSTRIA.

Our generators, with sound insulation enclosures up to 400 kW power, are manufactured in accordance with directive 2000/14/EC and are certified by SZUTEST.

Our generators are certified according to TS ISO 8528-4, TS ISO 8528-5, TS EN 13501-1+A1:2013 Insulation Foam Fire Behavior and TS EN ISO 9227 1500 Hour Neutral Salt Test. Our generators have CE Declaration.

TÜV AUSTRIA | SZUTEST | CE | TSE | EAC | TÜRKAK

TEREX DIESEL

www.terexdiesel.com

Deri OSB District, Tanen Street, Deri OSB Site No. 8, Tuzla, Istanbul

info@terexdiesel.com +90 216 634 34 06

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ENGINE SPECIFICATIONS

Service		Features
Brand		YANGDONG
Model		Y4110D
Engine Type		4 Stroke - Diesel
Injection Type		Direct Injection
Intake Type		Natural
Number of Cylinders		4
Cylinder Bore and Stroke	*mm*	110x118
Cylinder Volume	*L*	4,484
Cooling Type		Water Cooled
Compression Ratio		18:1
Fuel Consumption at 100% Prime Load	*(Ltr/h)*	12,03
Fuel Consumption at 75% Prime Load	*(Ltr/h)*	9,15
Fuel Consumption at 50% Prime Load	*(Ltr/h)*	6,91
Fuel Consumption at 25% Prime Load	*(Ltr/h)*	5,09
Total Oil Capacity	*L*	13
Total Cooling Capacity	*L*	7,2
Governor Type	*Type*	Mechanic

The engine used in the generator set is a heavy-duty, industrial-type diesel engine. Depending on the model, the system is equipped with a water-cooled structure, naturally aspirated or turbocharged air intake system, mechanical or electronic governor, 12V/24V starter motor and charging alternator. The engine has replaceable air, fuel and oil filters, a flexible fuel hose, an oil drain valve and extension hose or oil drain pump. The system is also supplied with an industrial-type muffler, exhaust spiral or compensator, maintenance-free starter battery, and, in suitable models, an engine block water heater. Maintenance and operating manuals and electrical diagrams are provided with all products.

ALTERNATOR SPECIFICATIONS

Service		Features
Brand		TEREX
Model		TA180-34N2
Output Voltage	*V*	480/277
Frequency	*HZ*	60
Automatic Voltage Regulation	*±%*	1
Alternator Standby Power	*kVA*	52
Alternator Continuous Power	*kVA*	56,3
Power Factor	*Cosq*	0,8
Number of Cables		12
Winding Pitch		2/3
Protection Class		IP23/H
Warning System		Self-excited
AVR Model		SX460
Performance - PF 0.8 / 75% Load	*%*	90,1

The alternator used in the generator set is a brushless, single-bearing, 4-pole synchronous type with flexible disc connections. It has Class H insulation and IP21-IP23 protection class. The system is self-excited and provides voltage stability with an electronic voltage regulator (AVR). The alternator stator windings are designed with a 2/3 pitch to reduce harmonic distortions. All windings are protected with a special insulation varnish against oil, moisture and acidic effects, offering long-lasting and reliable operation.

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DIMENSIONS

OPEN TYPE

LxWxH	*mm*	1200x1000x1050
Weight	*kg*	1230
Fuel Tank	*lt*	100

WITH CABIN

LxWxH	*mm*	1800x1000x1250
Weight	*kg*	1330
Fuel Tank	*lt*	100

CABIN FEATURES

- Soundproof enclosure designed according to a modular principle
- Enclosure assembly using bolts and nuts without welding
- Enclosure components painted with epoxy-polyester outdoor powder coating using nanotechnology
- IP23 protection rating
- Design suitable for easy generator maintenance
- Lockable doors on both sides
- Emergency stop button in a flush-mounted special recess on the cabinet's exterior
- Transparent panel window
- Fire-resistant acoustic foam insulation
- Nano-technology cleaning system
- Container optional

GENERATOR PROTECTION AND ALARMS

- High engine temperature
- Low oil pressure
- Excessive and low engine RPM
- Low coolant level
- Excessive current
- Excessive and low alternator voltage and frequency
- Start/stop system malfunction

SILENCER OPTIONS

- Industrial-grade
- Critical-grade silencer
- Hospital-grade

CABIN OPTIONS

- Standard Cabin
- Quiet Cabin
- Oval-Shaped Cabin

OPTIONAL EQUIPMENT

- Charging ammeter
- Thermal-magnetic circuit breaker (in automatic models)
- Hospital/critical-grade silencer
- Soundproof enclosure designed according to a modular principle
- Trailer
- Synchronization panel for 2–16 generators
- 3-pole/4-pole power transfer panel
- Fuel heater, oil heater
- Alternator heater
- Automatic fuel filling system
- Fuel-water separator filter
- PMG warning system

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GENERATOR CONTROL DEVICES

A new generation of single-generator control units that combine versatility with extensive communication capabilities for both backup and primary power applications, featuring EFI engines.

Datakom DKG 309

STANDARD

Datakom D500

OPTIONAL

Datakom D500-GSM

OPTIONAL

EMKO Trans-AUTO

OPTIONAL

DEEPSEA 7320

OPTIONAL

ComAp AMF25

OPTIONAL

	Datakom DKG 309	Datakom D500	Datakom D500-GSM	Deepsea 6120	Deepsea 7320	ComAp AMF25	EMKO Trans-AUTO
Automatic Main Monitoring	✓	✓	✓	✓	✓	✓	✓
Manual Operation	✓	✓	✓	✓	✓	✓	✓
Remote Operation	OPTIONAL	OPTIONAL	✓	X	OPTIONAL	OPTIONAL	OPTIONAL
Remote Monitoring via SIM Card	X	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
Optional Features (Horn, Oil/Fuel, etc.)	✓	✓	✓	✓	✓	✓	✓
Warning Light and MIM Diagram	✓	✓	✓	✓	✓	✓	✓
Battery Charger	✓	✓	✓	✓	✓	✓	✓
RS-485 Communication	OPTIONAL	✓	✓	X	✓	OPTIONAL	✓
Ethernet (TCP/IP) Communication	X	✓	✓	X	OPTIONAL	OPTIONAL	OPTIONAL

GENERATOR CONTROL DEVICES FOR SYNCHRONIZATION SYSTEMS

The new-generation synchronous generator control unit is equipped with a full range of communication capabilities and functionalities.

Datakom D500 MK2

Datakom D700

DEEPSEA 8610

DEEPSEA 8620

DEEPSEA 8660

ComAp InteliCompact NT SPtM

ComAp InteliGen BaseBox

ComAp InteliGen 200

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