TEREX DIESEL

Perkins

DIESEL GENERATOR SET

TRX P MC 1875-60 HZ

WATER | 1-3 PHASE | 60 Hz | DIESEL

Service		Standby	Prime
Power	kVA	1780	1620
Power	kW	1424	1296
Engine Spedd	r.p.m	1800	
Voltage	V	480/277	
Power Factor	Cos Phi	0,8	

Standby power; In standby mode, the load value defined in the document describes annual usage under variable load conditions, averaging 70% load. Overloading is not permitted. Standby power is 10% more than prime power. It is used as backup power in areas where grid power infrastructure is available.

Prime power; This document specifies 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 working period. It may be overloaded for a maximum of 1 hour at varying intervals during every 12-hour workday. This does not include continuous operation for 1 hour under overload conditions.

Continuous power; This allows for unlimited hours of use at the full (100%) of the defined power. Overloading beyond the defined power is not permitted. It is intended for use in locations without mains 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

Service		Features
Net Engine Output Power	kWm	1440
Standby Output Power	kWm	1583
Brand		Perkins
Model		4012-46TAG3A
Engine Type		4 Stroke Diesel
Injection Pattern		Direct Injection
Intake Pattern		Turbo Charge & Aftercooler
Number of Cylinders		12
Cylinder Bore and Stroke	mm	160 x 190
Cylinder Volume	L	45,8
Cooling Type		Water Cooled
Compression Ratio		13.6:1
Fuel Consumption at Load	(Ltr/h)	405 (50 Hz value)
100% Prime Load Fuel Consumption	(Ltr/h)	370 (50 Hz value)
75% Prime Load Fuel Consumption	(Ltr/h)	275 (50 Hz value)
50% Prime Load Fuel Consumption	(Ltr/h)	187 (50 Hz value)
Total Oil Capacity	L	177
Total Cooling Capacity	L	73
Governor Type	Type	Electronic

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

Service		Features
Brand		MECC ALTE
Model		ECO46-2S/4
Output Voltage	V	480/277
Frequency	HZ	60
Automatic Voltage Regulation	±%	1
Alternator Standby Power	kVA	2236
Alternator Continuous Power	kVA	2160
Power Factor	Cosq	0,8
Number of Cables		12
Winding Pitch		2/3
Protection Class		IP23/H
Warning System		Self Warning
AVR Model		MX341B
Performance - PF 0.8 / 75% Load	%	96,7

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.

* Rows marked “50 Hz value” are taken from the model’s 50 Hz catalogue; their 60 Hz figures are confirmed in the quote.

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DIMENSIONS

OPEN TYPE

LxWxH	mm	4950x2200x2720
Weight	kg	11858
Fuel Tank	lt	3000

CANOPIED

LxWxH	mm	6000x2500x3900
Weight	kg	12750
Fuel Tank	lt	2350

CABIN FEATURES

- Modular design, sound insulation cabin
- Cabin assembly performed with bolts and nuts without welding
- Cabin parts painted with epoxy polyester exterior powder paint using nanotechnology
- IP23 protection class
- Design suitable for easy generator maintenance
- Lockable doors on both sides
- Emergency stop button in a special, non-protruding recess on the cabin's exterior surface
- Transparent panel window
- Fireproof acoustic foam insulation
- Nanotechnology cleaning system
- Container optional

GENERATOR PROTECTION AND ALARMS

- High engine temperature
- Low oil pressure
- Excessive and low engine speed
- Low radiator water level
- Excessive current
- Excessive and low generator voltage and frequency
- Start/stop malfunction

SILENCER OPTIONS

- Industrial type
- Critical type Silencer
- Hospital type

CABIN OPTIONS

- Standard Cabin
- Quiet Cabin
- Special Type Cabin

OPTIONAL EQUIPMENT

- Charging ammeter
- Thermal magnetic circuit breaker (in automatic models)
- Hospital/Critical type muffler
- Sound insulation cabinet designed according to 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

Next-generation single generator control units combining multifunctionality for backup and main power applications and extensive communication with EFI engines.

Datakom DKG 309

OPTIONAL

Datakom D500

STANDARD

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 Master Monitoring	✓	✓	✓	✓	✓	✓	✓
Manual Operation	✓	✓	✓	✓	✓	✓	✓
Remote Operation	OPTIONAL	OPTIONAL	✓	X	OPTIONAL	OPTIONAL	OPTIONAL
Remote Monitoring with SIM Card	X	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
Optional Options (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 synchronized generator control unit has all kinds of communication and functionality.

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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