



# DIESEL GENERATOR SET



Service		Standby	Prime
Power	kVA	110	100
Frequency	Hz	5	0
Voltage	V	230,	/400
Phase	Cos Phi	3	3
Fuel	•••••		esel
Control Panel			om 500

ENMAKSAN has ISO 9001, ISO 14001 and OHSAS 18001 quality certifications. ENMAKSAN gensets are compliant with EC mark which includes the following directives:

- · 2006/42/CE Machinery safety.
- 2014/30/UE Electromagnetic compatibility.
- 2014/35/UE electrical equipment designed for use within certain voltage limits
- 2000/14/EC Sound Power level. Noise emissions outdoor equipment. (amended by 2005/88/EC)
- 97/68/EC Emissions of gaseous and particulate pollutants. (amended by 2002/88/EC & 2004/26/EC)
- EN 12100, EN 13857, EN 60204

Ambient conditions of reference according to ISO 8528-1:2005 normative: 1000 mbar, 25°C, 30% relative humidity. G2 class load acceptance in accordance with ISO 8528-5:2013







### **ENGINE**

Service	Specifications		
Engine Brand	PERKINS		
Engine Model	•••••••••••••••••••••••••••••••••••••••	1104C-44TAG2	
Standby Power	kWm	99,5	
Prime Power	kWm	90,1	
Fuel Type	Diesel		
Number of Cylinders and Type		4 -Vertical In-Line	
Bore x Stroke	mm	105x127	
Total Displacement	L	4,4	
Aspiration		Turbocharged, air-to-air char-	
Compression Ratio		18.23:1	
Rated Speed	rpm	1500	
Injection Type and System	••••••••••••	Direct injection	
Governor System		Electronic	
Operating Voltage	Vdc	12	
Cooling System		Water Cooled	
Air Filter Type	•••••••••••••••••••••••••••••••••••••••	Dry Type	
•••••	••••••	••••••	

## **ALTERNATOR**

Service	<b>Specifications</b>
No of Phases	3
Power Factor	0,8
No of Bearings	Single
No of Poles	4
No of Leads	6-12
Insulation Class	Н
Degree of Protection	IP23
Excitation System	AVR

#### **OPTIONAL ALTERNATOR MODELS**

maranello alternator	M110		
LEROY® SOMER	TAL A44		
STAMFORD	UCI274C		

#### **Standard Generator Features**

- · Heavy duty water cooled diesel engine and brushless alternator
- Solid steel base frame with minimum 8 hours base tank and anti-vibration mountings
- · AMF Control panel with digital-automatic main control module
- 50C Tropical radiator
- · Battery charge redressor. Lead acid battery
- · Residencial type silencer
- Flexible exhaust compensator
- · Block water heater unit
- · All rotating parts are covered by metal mesh against damages
- Engine and alternator manufacturer test reports (if provided )
- · Factory load, performance and function tests
- User Manual, Electrical Drawing and Gurantee certificate

#### Note

All data based on operation to ISO 3046/1, BS 5514 and DIN 6271 standard reference conditions.

#### Prime Power (PRP)

According to ISO 8528-1:2005, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output (Ppp) over 24 h of operation shall not exceed 70 % of the PRP.

#### **Emergency Standby Power (ESP):**

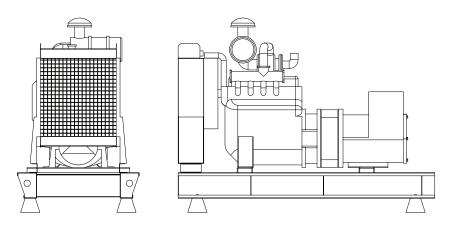
According to ISO 8528-1:2005, Emergency standby power is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP.





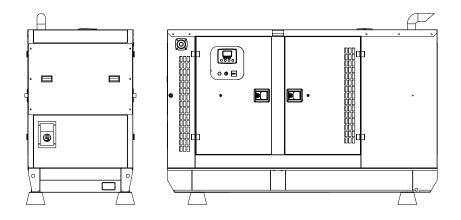


# **DIMENSIONS**



#### **OPEN TYPE**

WxLxH	mm	2200x1000x1610
Weight	kg	1320
Fuel Tank Capacity	lt .	300



#### **CANOPIED**

WxLxH	mm	2750x1100x1860
Weight	kg	1560
Fuel Tank Capacity	It	300

#### **Sound Proof Canopy Specifications**

- Special design for minimizing acoustic level
- Galvanized steel construction further protected by polyester powder coat paint
- Black finish stainless steel locks and hinges
- Control panel viewing window in a lockable access door
- Emergency stop push button (red) mounted on enclosure exterior
- Lifting, drag and jacking points on base frame
- Radiator fill via removable, flush mounted rain cap fitted with compression seal







# **OPTIONAL GENSET CONTROLLERS**

Next generation single gen-set controllers for Stand-by and Prime power applications combining multi-functionality and wide communication with EFI engines.

Datakom SMART 200



Datakom D500-GSM

EMKO Trans-AUTO

DEEPSEA 7320

ComAp AMF25













	Datakom SMART 200	Datakom D500	Datakom D500-GSM	Deepsea 6120	Deepsea 7320	ComAp AMF25	EMKO Trans-AUTO
Automatic Mains Monitoring	✓	✓	✓	✓	✓	✓	✓
Manuel Start	✓	✓	✓	✓	✓	✓	✓
Remote Start	OPTIONAL	OPTIONAL	✓	X	OPTIONAL	OPTIONAL	OPTIONAL
Remote Monitoring With Sim Card	X	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
1 Aditional Option (Horn, Oil-Fuel Heater Etc.)	✓	✓	✓	✓	✓	✓	✓
Light Warning And Mimic Diagram	✓	✓	✓	✓	✓	✓	✓
Battery Charger	✓	✓	✓	✓	✓	✓	✓
Rs-485 Communication	OPTIONAL	✓	✓	X	✓	OPTIONAL	✓
Ethernet (Tcp-lp) Communication	X	✓	✓	X	OPTIONAL	OPTIONAL	OPTIONAL

#### **GENSET CONTROLLERS FOR SYNCHRONIZATION SYSTEMS**

Next generation synchronizing genset controller capable of every communication and functionality.

Datakom D500 MK2



Datakom D700



DEEPSEA 8610



DEEPSEA 8620



DEEPSEA 8660



ComAp InteliCompact NT SPtM



ComAp InteliGen BaseBox



ComAp InteliGen 200

