



Generator Set		Stand by	Prime
Power	kVA	110	100
Power	kW	88	80
Frequency	Hz	50	
Voltage	V	230/400	
Fuel Type		Diesel	
Control Panel		Datakom D309	
Cabin		AK 10	

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.

Engine

Service	Specifications	
Rated Output Power	<i>kW</i>	88
Brand	VOLVO PENTA	
Model	TAD531GE	
Engine Type	4 Stroke - Diesel	
Injection Type	Direct	
Suction Type	Natural	
Number of Cylinders	4	
Bore and Stroke	<i>mm</i>	108 x 130
Cylinder Volume	<i>L</i>	4,76
Cooling Type	Water Cooling	
Compression Ratio	18:01	
Fuel Consumption at Stand by Load	<i>l/h</i>	23,7
100% Fuel Consumption at Prime Load	<i>l/h</i>	23,2
75% Fuel Consumption at Prime Load	<i>l/h</i>	22,5
50% Fuel Consumption at Prime Load	<i>l/h</i>	22,5
Total Oil Capacity	<i>L</i>	13
Total Cooling Capacity	<i>L</i>	7,2
Governor Type	<i>Type</i>	Electronic

Replaceable cylinder jacket
Dry type replaceable oil filter
Heat-resistant radiator for 50 °C

Standard Features

4 Stroke, 1500 RPM, water cooled heavy duty diesel engine
Protection system on Manuel run
Flexible oil pipes and oil draining valve
Pre-heater
Lubrication oil and anti-freeze
Batteries and cables
Electrostatic paint coated, steel, welded chassis
Fuel tank housed in the chassis
Industrial type silencer
Electronic battery charger
Electrical wiring diagram
User manual and operating manual
Automatic working time 10 second

Alternator

Service	Specifications	
Brand	KAPLAN POWER	
Model	KPA110	
Output Voltage	<i>V</i>	230/400
Frequency	<i>HZ</i>	50
Automatic Voltage Regulation	$\pm\%$	1
Alternator Standby Power	<i>kVA</i>	112
Alternator Continuous Use Power	<i>kVA</i>	100
Power Factor	<i>Cosq</i>	0,8
Number of Cables	12	
Winding Pitch	2.Mar	
Protection Class	IP23/H	
Warning System	Self-excited	
Execution System	Electronic AVR	
Performance - PF 0.8 / 75% Load	<i>%</i>	92

4 Poles, Self-Excitation, Brushless, Synchron type alternator
Electronic type automatic voltage regulator (AVR)
Self Cooled

Optional Equipment

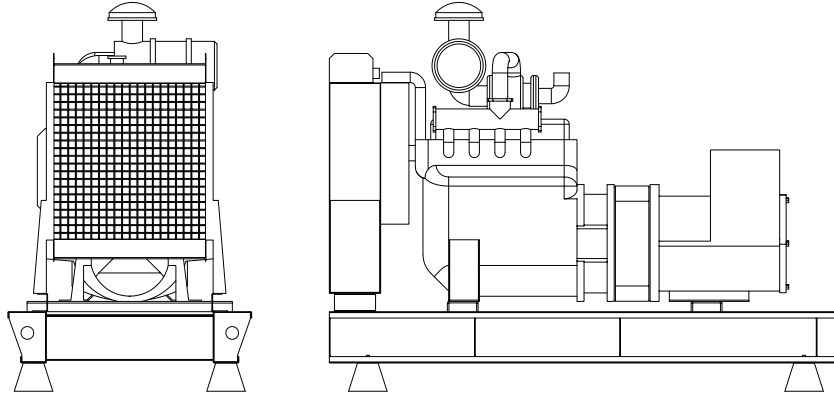
Engine
Remote Radiator Cooling
Oil heater
Fuel-Water Separator Filter

Alternator
Main line circuit breaker
Anti-Condensation
Heater Over sized alternator

Control System
Remote communication with modem
Alarm output relays/ Charge Ammeter
Automatic synchronizing

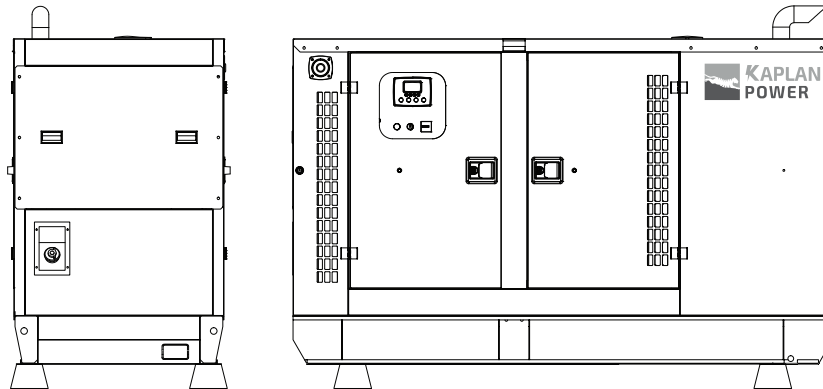
Others Accessories
Automatic transfer switch
Remote control and monitoring
Alarm system for fuel level
Trailer 1 Phase - 3 Phase switch plugs
1500/3000 hours maintenance kit
Tool kit for maintenance
Inlet and outlet acoustic baffles
Inlet and outlet motorized louvers
Main Fuel Tank
Supplied with oil and coolant - 30 °C

Dimensions



Open Type

Length x Height x Width	mm	2200x1000x1610
Weight	kg	1590
Fuel Tank Capacity	lt	310



Canopied

Length x Height x Width	mm	2980x1100x2000
Weight	kg	1750
Fuel Tank Capacity	lt	310
Desibel	db(A)	65-75

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 DKG 309



Datakom D500



Datakom D500-GSM



EMKO Trans-AUTO



DEEPSEA 7320



ComAp AMF25



	Datakom DKG 309	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 Additional Option (Horn, Oil-Fuel Heater Etc.)	✓	✓	✓	✓	✓	✓	✓
Light Warning And Mimic Diagram	✓	✓	✓	✓	✓	✓	✓
Battery Charger	✓	✓	✓	✓	✓	✓	✓
Rs-485 Communication	OPTIONAL	✓	✓	X	✓	OPTIONAL	✓
Ethernet (Tcp-Ip) 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 IntelliCompact NT SPtM



ComAp IntelliGen BaseBox



ComAp IntelliGen 200

