KZ POWER

Gentech alternator

WATER-COOLED THREE PHASES 50 HZ STAGE 2 DIESEL

SDEC

DIESEL GENERATOR SET 50 Hz

Service		Standby	Prime
Power	kVA	825	750
Power	kW	660	600
Speed	r.p.m	1500	
Standart Voltage	V	24	
Power Factor	Cos Phi	0,8	

KZPOWER has ISO 9001, ISO 14001 and OHSAS 18001 quality certifications.
KZPOWER 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, 25ºC, 30% relative humidity.
G2 class load acceptance in accordance with ISO 8528-5:2013

ENGINE

Service		Specifications
Brand		SD Diesel Engine
Model		SD30G1020TLD
Engine Type		4 Stroke - Diesel
Injection Type		Direct Injection
Aspiration Type		Naturally Aspirated
Number of cylinders and arrangement		12 - V
Bore&Stroke	mm	138x168
Displacement	L	30,1
Cooling System		Water Cooling
Compression Ratio		17.6:1
Fuel Consumption Standby	l/h	190,7
Fuel Consumption 100% PRP	l/h	173,4
Fuel Consumption 75 % PRP	l/h	132,1
Fuel Consumption 50 % PRP	l/h	88,3
Total oil capacity including tubes,filters	L	65
Total coolant capacity	L	151
Governor	Type	Electronic

ALTERNATOR

GNT-825   KZSD-G825

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

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.
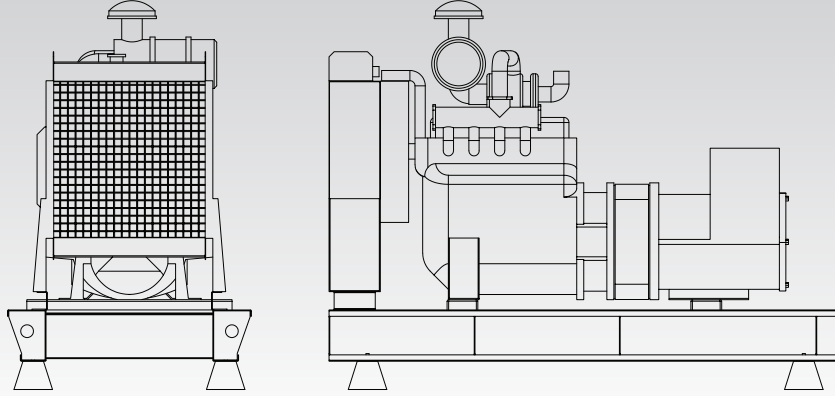
Prime Power (PRP)

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.
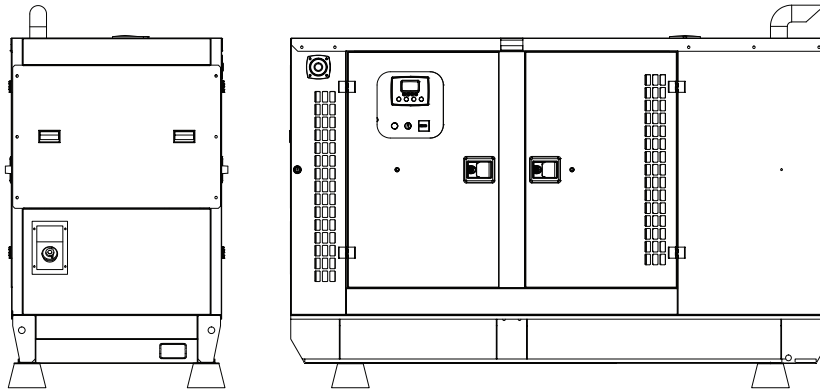
Emergency Standby Power (ESP):

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.

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DIMENSIONS

OPEN TYPE

WxLxH	mm	4150x1900x2800
Weight	kg	5230
Fuel Tank Capacity	lt	1350

CANOPIED

WxLxH	mm	4800x1900x2700
Weight	kg	6270
Fuel Tank Capacity	lt	1350

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

CONTROL UNIT

STANDART

D300 - DATAKOM

4-band GPRS modem (optional)	
USB Device	
RS-232 (2400-57600baud)	
J1939-CANBUS	
Geo-locating through GSM	
GPS support (RS-232)	
Internet Central Monitoring	
SMS message sending	
E-mail sending	
Free PC software: Rainbow Plus	
Modbus RTU	

OPTIONAL

D500 - DATAKOM

Ethernet (10/100Mb)	Internet Central Monitoring
4-band GPRS modem (optional)	SMS message sending
USB Host & USB Device	E-mail sending
RS-485 (2400-115200baud)	Free PC software: Rainbow Plus
RS-232 (2400-115200baud)	Modbus RTU & Modbus TCP/IP
Micro SD card slot	SNMP (with TRAP messages)
J1939-CANBUS	SNTP
Geo-locating through GSM	
GPS support (USB & RS-232)	
Embedded web server	
Web monitoring & programming	

ATS PANEL

KZ Power transfer switches are ideal for emergency, standby power applications. The KZ Power transfer switch is available in several different control configurations to meet the requirements of your load transfer application.

KZ POWER 's contactor based transfer switch is rated 40–3600A and can be supplied in separate enclosure for stand-alone applications or can be supplied as an integral component. Contactors inside the ATS panels are well known and internationally recognized brands such as ABB, LS/LG,SCHNEIDER, GE and ANDELI.

OPTIONAL EQUIPMENTS

Some of our Optional Equipments which can be provided with Generator Sets But not limited to;
• Medium voltage alternator
• Remote radiator applications
• External fuel tanks. Automatic and Manuel fuel filling system from external fuel tanks
• Fuel tank heater, oil pan heater,Anti-condensation heater
• Alternator with PMG (Permanent Magnet Generator)
• Synchronization systems
• Double Walled Fuel Tanks
• Container type canopy
• Lube oil and fuel drain pumps
• Trailer
• Remote monitoring options on the control panel
• Electronic fuel level indicator