Standby 50 kVA

Diesel Generating Sets

APD50P

Engine : Perkins
Alternator : Mecc Alte
Control System : P 72

AKSA POWER DIESEL

This generator set is available with CE certification.

3 Phase Ratings, 50 Hz, PF 0,0

	Standby Rating (ESP)		Prime Rating (PRP)		
Voltage	kVA	kw	kVA	kw	Amp
400/230	50,00	40,00	45,00	36,00	64,00

Standby Rating (ESP): Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. ESP is in accordance with ISO 8528. Overload is not allowed.

Prime Rating (PRP): Applicable for supplying power to varying electrical load for unlimited hours. PRP is in accordance with ISO 8528. 10 % overload capability is available for a period of 1 hour within 12-hour perod of operation,in accordance with ISO 3046.

STANDARD SPECIFICATIONS

Heavy duty, water cooled diesel engine
Radiator with mechanical fan
Protective grille for rotating and hot parts
Electric starter and charge alternator
Starting battery (with lead acid) including rack and cables
Engine coolant heater
Steel base frame and anti-vibration isolators
Spare external fuel tank (open set)
Flexible fuel connection hoses
Two bearing, class H alternator
Industrial exhaust silencer and steel bellows supplied separately
Static battery charger
Manual for application and installation

OPTIONAL EQUIPMENTS

ENGINE

OTHER ACCESSORIES

ALTERNATOR

CONTROL SYSTEM

TRANSFER SWITCH

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DIESEL ENGINE SPECIFICATIONS

Manufacturer		Perkins
Model		1103A-33TG1
No. of Cylinders and Build		3 Cylinder, In Line
Aspiration and Cooling		Turbo Charged
Maximum Standby Power		1500 rpm 45,60 kw [61,10HP]
Total Displacement	L	3,300
Bore and Stroke	mm	105x127
Compression Ratio		17.25:1
Rated Speed (rpm)	rpm	1500
Governor		Mechanical
Oil Capacity	L	8,30
Coolant Capacity	L	10,20
Intake Air Flow	m³ /min.	2,90
Radiator Cooling Air	m³ /min.	53,00
Exhaust Gas Flow	m³ /min.	7,00
Start System		12 V d.c.
Fuel Consumption	Load	%100
	L/h	10,70

ALTERNATOR SPECIFICATIONS

Make		Mecc Alte
Frequency	Hz	50
Design		Brushless, 2 poles
Phase		3
Voltage	V	400/230
Current	A	0,00
Insulation Class		H

DIEMENSIONS AND WEIGHT

Open Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
APD50P	800,00	1730,00	900,00	1185,00	82,00
Canopy	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
ASM 3	1000.00	1933	963	1213	95

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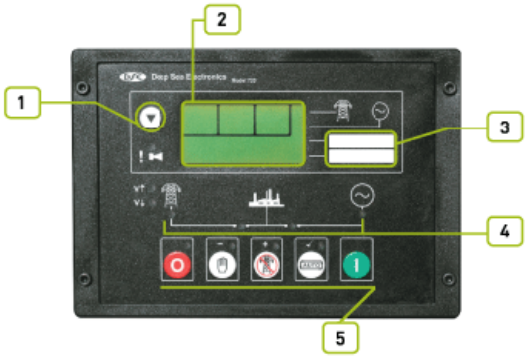
P 72 - Control System



1. LCD display scroll button
2. LCD display
3. Additional alarm / Status LED's
4. Status LED's
5. Operation selecting buttons

Devices

DSE, model 720 Auto Mains Failure control module
Static battery charger 5A, 220/240 volt
Emergency stop push button and fuses for control circuits

Construction and Finish

Components installed in sheet steel enclosure. Phosphate chemical, pre-coating of steel provides corrosion resistant surface
Polyester composite powder topcoat forms high gloss and extremely durable finish
Lockable hinged panel door provides for easy component access

Installation

Control panel is mounted generating set baseframe on robust steel stand.
Located at side of generating set with properly panel visibility.

Generating Set Control Unit

DSE 720
The DSE 720 conrol module is a standard addition to our generator sets up to 250kVA and it have been designed to start and stop diesel and gas generating sets. The DSE 720 module has been designed to monitor generator frequency, volt, current, engine oil pressure, coolant temperature running hours and battery volts. Module monitors the mains supply and switch over to the generator when the mains power fails.
The DSE720 also indicates operational status and fault conditions, automatically shutting down the generating set and indicating faults by means of its LCD display on the front panel.

Standard Specifications

Microprocessor controlled
LCD display makes information easy to read
Black-lit character/icon LCD display
Transfer between mains (utilty) and generator power
On-site module configuration and remote configuration (max 100 meters) using PC software
User-friendly set-up and button layout
Front panel programming
Remote start
Multiple engine parameters are monitored simultaneously
Controls: Stop/Reset, Manual, Auto, Test, Start, buttons. An additional push button next to the LCD display is used to scroll through the modules' metering displays

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AKSA POWER DIESEL

Instruments

ENGINE
Engine speed
Oil pressure
Coolant temperature
Run time
Battery volts
GENERATOR
Voltage (L-N)
Current (L1-L2-L3)
Frequency
MAINS
Voltage (L-L, L-N)

Protection Circuits

WARNING
Battery charge failure
Low battery voltage

SHUT DOWNS
Fail to start
Emergency stop
Low oil pressure
High engine temperature
Over /Under speed
Under/over generator frequency
Failed to reach loading voltage
Failed to reach loading frequency
ELECTRICAL TRIP
Generator over current

Options

High oil temperature shut down
Low fuel level alarm
High fuel level alarm
Low coolant level

Standards

Elecrical Safety / EMC compatibility
BS EN 60950 Electrical business equipment
BS EN 61000-6-2 EMC immunity standard
BS EN 61000-6-4 EMC emission standard for the industral environment

Static Battery Charger

Battery charger is manufactured with switching-mode and SMD technology and ït has high efficincy.
Battery charger models' output V-I characteristic is very close to square and output is 5 amper, 12 volt DC. Input 198 - 260 volt AC.
1205 has fully output shot circuit protection and ït can be used as a current source.
1205 charger has high efficiency, long life, low failure rate, light weight and low heat radiated in accordance with linear alternatives.
The charger is fitted with a protection diode across the output.
Charge fail output is available. Connect charge fail relay coil between positive output and CF output.

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ASM 3 - Canopy

1. Steel structures.
2. Emergency stop push button.
3. Control panel is mounted on the baseframe . Located at the right side of the generator set
4. Corrosion-resistant locks and hinges.
5. oil could be drained via valve and a hose
6. Exhaust system in the canopy.
7. special large access doors for easy maintanance
8. Base frame -fuel tank.
9. Lifting Points.
10. sound proofing materials.

Introduction

Sound-attenuated and weather protective enclosures for generating sets from Aksa, meet event the sound requirements and provide optimum protection from inclement weather and development by our specialist acoustic engineers. Our modular designed sound insulated canopies (8 - 275kVA) fit directly to the open generator set to provide ease of access for servicing and general maintenance and interchangeable components permitting on-site repair. Enclosures are designed to optimize genset cooling performance, providing you with confidence that genset ratings and ambient capability.

Standard Specifications

Compact footprint, low profile design.
Enclosure, generator set, exhaust system and base-tank are pre-assembled, pre-integrated and shipped as one package
Body made from steel components treated with polyester powder coating
Fire retardant foam insulation
Easy access to all service points
Exhaust system inside canopy
Large doors on each side
Control panel viewing window in a lockable access door
Emergency stop push button mounted on enclosure exterior
Cooling fan and battery charging alternator fully guarded
Fuel fill and battery can only be reached via lockable access doors.
Lifting points on the top of canopy and base frame
Customer options available to meet your applications needs.

Width	mm.	963
Lenght	mm.	1933
Height	mm.	1213
Fuel Tank Capacity	L	95

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