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This generator set is available with CE certification.

	Standby Rating (ESP)		Prime Rating (PRP)		
Voltage	kVA	kW	kVA	kW	Amp
400/230	22,00	17,60	20,00	16,00	28,00

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.

Heavy duty, water cooled diesel engine Radiator with mechanical fan Protective grille for fan and rotating parts Electric starter and charge alternator Starting battery (with lead acid) including rack and cables Engine jacket cooling heater Steel base frame and anti-vibration isolators Spare Fuel Tank Flexible fuel connection hoses Two bearing, class H alternator Industrial exhaust silencer and steel belows supplied separately Static battery charger

OPTIONAL EQUIPMENTS

Manual for use and installation

**ENGINE** 

OTHER ACCESSORIES

**ALTERNATOR** 

CONTROL SYSTEM

TRANSFER SWITCH

# • DIESEL ENGINE SPECIFICATIONS

Manufacturer		Perkins	تولید کننده
Model		404D-22G	مدل
No. of Cylinders and Build		4 Cylinder, In Line	تعداد سیلندرها و نوع آرایش آنها
Aspiration and Cooling		Naturally Aspirate	سیستم تنفس و خنک کاری
Maximum Standby Power		1500 rpm 20,30 kW [27,20HP]	توان Standby
Total Displacement	L	وایی کل 2,210	
Bore and Stroke	mm	سیلندر و کورس پیستون 84x100	
Compression Ratio		ت تراکم 23,3:1	
Rated Speed (rpm)	rpm	، مجاز	
Governor		Mechanical	
Oil Capacity	L	ت روغن	
Coolant Capacity	L	فیت خنک کننده	
Intake Air Flow	m³ /min.	ریان هوای مصرفی 1,45	
Radiator Cooling Air	m³ /min.	ریان گاز خروجی از اگزوز 40,20	
Exhaust Gas Flow	m³ /min.	ای گاز خروجی از اگزوز 3,64	
Start System		12 V d.c.	استارتر
Euol Consumption	Load	%100	مصرف سو <i>خت</i>
Fuel Consumption	L/h	5,40	سوحت

# • ALTERNATOR SPECIFICATIONS

Make		Stamford	تولید کننده
Frequency	Hz	50	فركانس
Design		Brushless, 2 poles	طراحى
Phase		3	فاز
Voltage	V	400/230	ولتاژ
Insulation Class		Н	كلاس عايق بندى

# DIEMENSIONS AND WEIGHT

Open Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
APD22P	655,00	1500,00	900,00	1172,00	
Canopy	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
ASM 3	885,00	2120	920	1480	110

# • 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

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

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

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

### 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)

## Options

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

### 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

### 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 it 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 it 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.

# ASM 3 - Canopy



- 1 Steel structures
- 2 Emergency stop push button
- Control panel is right side of the set.
- 4 Corrosion-resistant locks and hinges
- 5 Sump drains valves
- 6 Exhaust system in the canopy
- 7 Lockable, large doors o each side
- 8 Sound proof foam metarial
- Base frame -tank
- 10 Lifting Points

### Introduction

Sound-attenuated and weather protective enclosures for generating sets from abyaran, 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, 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.

pre-integrated and shipped as one

Width	mm.	920
Lenght	mm.	2120
Height	mm.	1480
Fuel Tank Capacity		110