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GENERATOR WAREHOUSE
World-Class Generator Solutions

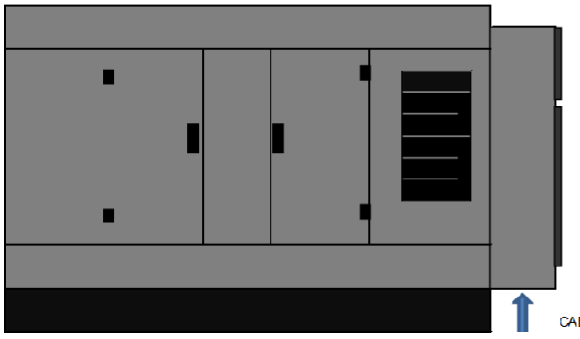
MAKE	**PERKINS**
MODEL NUMBER	**403-15G2**
PRIME POWER	**13.5 kVA**
STANDBY POWER	**14.85 kVA**
VOLTAGE	**230V**
PHASE	**SINGLE PHASE**
AMP @ UNITY	**46.5 A**
AMP @ 0.8PF	**58 A**
ONE STEP LOAD	**70% OF AMP RATING**

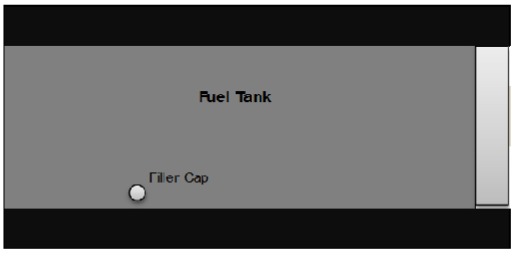
// GENERAL SPECIFICATIONS

ALL CANOPIES ARE WEATHER RESISTANT AND LINED WITH SOUND REDUCTION FOAM
VENTILATION PARTS ARE DESIGNED WITH MODULAR PRINCIPLES
CANOPIES ARE ALL METAL AND POWDER-COATED, EQUIPPED WITH LOCKABLE DOORS
BASE FRAME DESIGN INCORPORATES AN INTEGRAL FUEL TANK
COASTAL ANTIRUST STAINLESS STEEL OPTIONS ARE AVAILABLE FOR THE CANOPY
STANDARD FILLER CAP AND FUEL LEVEL GUAGE IS LOCATED INSIDE THE CANOPY
INCLUDES DIESEL LEVEL SENSOR AND INFORMATION TO THE CONTROLLER
STANDARD STAINLESS STEEL EXHAUST WITH SILENCER
PERSONALISED SPECIFICATONS CAN BE ACCOMODATED

	LENGTH	WIDTH	HEIGHT	WEIGHT
STANDARD CANOPY SET DIMENSIONS	2100mm	900mm	1800mm	1150 kg
SILENT CANOPY SET DIMENSIONS WITH NOSECONE	2400mm	900mm	1650mm	1300 kg
FOOTPRINT	1800mm	900mm		
ADVISED PLINTH SIZE 30MPA REINFORCED	2800mm	1500mm	250mm DEEP	

AVERAGE SOUND WITH STANDARD CANOPY	82 DB AT 7m
AVERAGE SOUND WITH SILENT CANOPY AND NOSECONE	72 DB AT 7m
DIESEL TANK SIZE	130L





ENGINE SPECIFICATIONS

HEAVY DUTY DIESEL ENGINE

COOLING RADIATOR AND FAN

REPLACEABLE FUEL FILTER, OIL FILTER AND DRY ELEMENT AIR FILTER

FUEL CONNECTION HOSES

DC STARTER AND CHARGE ALTERNATOR

CYLINDER NUMBER	4
CYLINDER ARRANGEMENT	IN LINE
INDUCTION SYSTEM	NATURALLY ASPIRATED
BORE	84 mm
STROKE	100 mm
DISPLACEMENT	2.216 L
OIL CAPACITY	10.6 L
OIL TYPE	15W40
COMPRESSION RATIO	23.3
GENSET POWER PRIME	10.8 Kw
GENSET POWER STANDBY	11.88 kW
GOVERNING	ELECTRONIC/MECHANICAL
FUEL CONSUMPTION 75% LOAD	4.0 L/H
FUEL CONSUMPTION 100% LOAD	5.3 L/H

ALTERNATOR SPECIFICATIONS

MAKE	AS PER YOUR QUOTE DETAIL
MODEL NUMBER	
FLANGE	

OTHER MAKES AND MODELS ARE AVAILABLE

THE ENGINE AND ALTERNATOR ARE CLOSELY COUPLED BY MEANS OF A SAE FLANGE ANTI-VIBRATION PADS ARE AFFIXED BETWEEN ENGINE ALTERNATOR FEET AND BASE FRAME

BRUSHLESS, SINGLE BEARING SYSTEM

SELF-EXCITING AND SELF-REGULATING

CLOSE VOLTAGE REGULATION

AVR 2/3 PITCH DESIGN AVOIDS EXCESSIVE

NEUTRAL CURRENTS H CLASS INSULATION

STANDARD 2/3 PITCH STARTER WINDINGS

CONTROL PANEL SPECIFICATIONS

OTHER MAKES AND MODELS ARE AVAILABLE

PANEL TYPE	AUTOMATIC MAINS FAILURE PANEL
CONTROLLER TYPE	DEEP SEA 4520

PANEL AMP RATING	58 A
CONTACTOR AMP RATING AC3	60 A
CB GENERATOR RATING	60 A
ISOLATOR MAINS	OPTIONAL
EMERGENCY STOP	YES
BATTERY CHARGER	YES
CHANGE OVER INCLUDED	YES

THE CONTROLLER IS A MICROPROCESSOR BASED CONTROL UNIT CONTAINING ALL NECESSARY FUNCTIONS FOR PROTECTION AND CONTROL OF THE GENERATOR UNIT.

FURTHERMORE IT CONTAINS A THREE PHASE AC VOLTAGE MEASURING UNIT.

THE CONTROLLER IS EQUIPPED WITH A LCD DISPLAY PRESENTING ALL VALUES AND ALARMS.

THE ALL-IN-ONE CONTROLLER IS DESIGNED FOR THE FOLLOWING APPLICATIONS:

1. AUTOMATIC ENGINE START / STOP
2. ENGINE PROTECTION
3. BREAKER CONTROL
4. GENERATOR PROTECTION

OPTIONAL SPECIFICATIONS

OPTIONAL

SYNCHRONIZING

FOR KVA REQUIREMENTS LARGER THAN 600 WE SUGGEST YOU CONSIDER SYNCHRONIZATION AS AN OPTION.

- IT IS MORE COST EFFECTIVE FOR THE PURCHASE PRICE, MAINTENANCE AND FUEL CONSUMPTION
- IF UNDERLOAD, GLAZING WILL BE PREVENTED DUE TO THE EFFECTIVE CONTROL ON THE SETS BY REGULATING AND MANAGING THE LOAD REQUIREMENTS AND SWITCHING BETWEEN SETS AUTOMATICALLY
- WHEN BUSY WITH MAINTANCE OTHER SETS CAN STILL PROVIDE POWER

OPTIONAL

CONTROL FUNTIONS

ALL CIRCUITS CAN BE DESIGNED TO MEET SPECIFIED REQUIREMENTS

ALL CONTROLLER MAKES AND MODELS ARE AVAILABLE GSM

MODEMS ARE AVAILABLE FOR SMS AND REMOTE CONTROL

EXTERNAL SIREN AND LIGHT IS AVAILABLE ON REQUEST

OPTIONAL

ISLAND MODE – ONLY AVAILABLE FOR SETS LARGER THAN 150kVA

IN MOST MANUFATURING SYSTEMS ANY ELECTRICAL SUPPLY INTERRUPTION CAN RESULT IN LARGE MATERIAL AND PRODUCTION LOSSES. THIS NIGHTMARE CAN BE RESOLVED DURING SCHEDULED POWER OUTAGES WITH THE ISLAND MODE. THIS IS A PLC CONTROLLED SYSTEM DESIGNED WITH THE MOST ADVANCED TECHNOLOGY.