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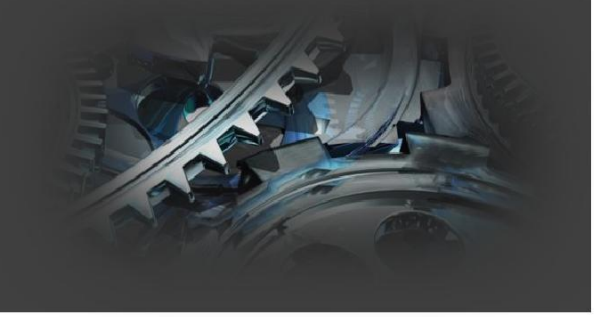
GENERATOR WAREHOUSE
World-Class Generator Solutions

MAKE	**PERKINS**
MODEL NUMBER	**1106A-70TAG3**
PRIME POWER	**180 kVA**
STANDBY POWER	**198 kVA**
VOLTAGE	**230V / 400V**
PHASE	**THREE**
AMP @ UNITY	**PHASE 208A**
AMP @ 0.8PF	**260A**
ONE STEP LOAD	**65% OF AMP RATING**

// GENERAL SPECIFICATIONS

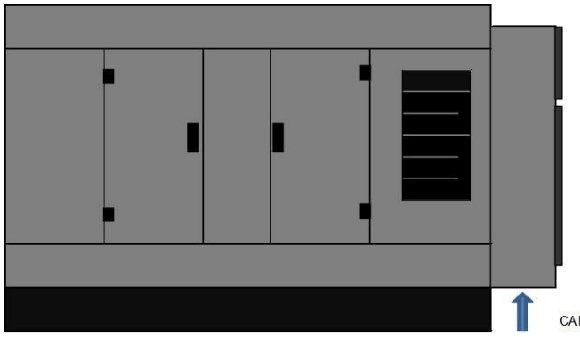
Perkins

- 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	3250mm	1200mm	2400mm	2100kg
SILENT CANOPY SET DIMENSIONS WITH NOSECONE	3700mm	1200mm	2050mm	2200kg
FOOTPRINT	2750mm	1200mm		
ADVISED PLINTH SIZE 30MPA REINFORCED	3500mm	1700mm	300mm DEEP	

AVERAGE SOUND WITH STANDARD CANOPY	85 DB AT 7m
AVERAGE SOUND WITH SILENT CANOPY AND NOSECONE	75 DB AT 7m
DIESEL TANK SIZE	450L





// 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

//POWERFUL GENERATOR SOLUTIONS

CYLINDER NUMBER	6
CYLINDER ARRANGEMENT	IN LINE
INDUCTION SYSTEM	TURBO CHARGED
BORE	105 mm
STROKE	135 mm
DISPLACEMENT	7.01 L
OIL CAPACITY	18 L
OIL TYPE	15W40
COMPRESSION RATIO	16:1
GENSET POWER PRIME	144Kw
GENSET POWER STANDBY	158.4kW
GOVERNING	ELECTRONIC
FUEL CONSUMPTION 75% LOAD	32 L/H
FUEL CONSUMPTION 100% LOAD	41.4 L/H

// ALTERNATOR SPECIFICATIONS

MAKE	AS PER YOUR QUOTE DETAIL
MODEL NUMBER	
FLANGE	SAE3 / 11.5

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



PANEL TYPE	AUTOMATIC MAINS FAILURE PANEL
CONTROLLER TYPE	DEEP SEA 6020 MK II

OTHER MAKES AND MODELS ARE AVAILABLE

PANEL AMP RATING	**260A**
CONTACTORS AMP RATING AC3	**265A**
CB GENERATOR RATING	**250A**
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.

