



**POWERED BY:** 



GENSET IMAGE IS FOR ILLUSTRATION PURPOSE ONLY

GENERATOR SET MO	DEL (GPD 250)				
OUTPUT RATINGS (1500 RPM @ 0.8 P.F)		Prim	E	STANDBY	
400 V, 50 Hz @ 50 °C AMBIENT		250 K	٧٨	275 KVA	
ENGINE / TECHNICAL DATA					
Make (origin)		Doosan (Korea)			
Model		P-126-TI			
Governing Type		Μεςηνιζα			
NUMBER OF CYLINDERS		06			
		IN-LINE			
BORE AND STROKE MM		123 & 155			
DISPLACEMENT ( LITERS)		11.05			
CYCLE		04			
COMBUSTION SYSTEM		DIRECT			
Compression Ratio		17.1:1			
<b>Π</b> ΟΤΛΤΙΟΝ		COUNTER CLOCK WISE			
		VIEWED FROM FLYWHEEL			
COOLING SYSTEM		WATER COOLED			
FREQUENCY AND ENGINE SPEED		50 HZ & 1500 RPM			
		Prime			
GROSS ENGINE POWER KW		241			
FUEL CONSUMPTION	@ 100% LOA	d L/hr		48	
@ <b>75% LO</b> AD		-		36	
	@ <b>50% LOAD</b>			24	
LUBRICATION SYSTEM CAPACITY (LITERS		)		23	
TOTAL COOLANT CAPACITY (LITERS)				19	

DIMENSIONS AND WEIGHT					
Length (мм)	Width (мм)	Неіднт (ММ)	Weight (кg)		
1384	1109	1195	1740		



## 1. ENGINE

DOOSAN 04 STROKE HEAVY DUTY WITH HIGH PERFORMANCE INDUSTRIAL TYPE DIESEL ENGINE.

#### 2. COOLING SYSTEM

THE ENGINE COOLING SYSTEM IS A FRESH WATER FORCED CIRCULATION TYPE & CONSISTS OF:

- A RADIATOR WITH MECHANICAL FAN SUITABLE FOR OPERATION IN A TEMPERATURE OF 50  $^{\circ}$ C.
- A THERMOSTAT FOR AUTOMATIC CONTROL OF WATER COOLANT TEMPERATURE.
- $\Lambda$  cooling water pump.

### 3. LUBRICATION OIL SYSTEM

- LUBRICATING OIL GEAR PUMP & SUMP WITH DRAIN VALVE FOR PRESSURE LUBRICATION.
- SPIN ON FULL FILTER & CARTRIDGE OIL FILTER.
- OIL COOLER.
- MANUAL PUMP FOR EMPTYING THE SUMP.
- LUBE OIL HEATERS.
- GEARED FUEL PUMP.
- SPIN & CARTRIDGE FUEL FILTER.
- FUEL INJECTION PUMP WITH MECHANICAL SPEED REGULATOR.

4. COMBUSTION AIR SUPPLY SYSTEM

DRY AIR FILTER WITH CLOGGING INDICATOR.

### 5. EXHAUST SYSTEM

WATER COOLED FLANGED EXHAUST MANIFOLD SYSTEM WITH INDUSTRIAL TYPE EXHAUST SILENCER FOR REMOTE MOUNTING. EXPANSION GASKET FITTED ON OUTLET WITH S.S INSULATED PIPES TO AVOID ANY CONTACT WITH HOT AREAS.

## 6. STARTING SYSTEM

ELECTRIC STARTER WITH BATTERY CHARGER ALTERNATOR COMPLETE WITH AUTOMATIC VOLTAGE REGULATOR, 24 V LEAD ACID STARTER BATTERIES.

- 7. ELECTRICAL EQUIPMENT FOR AUTOMATIC OPERATION
  - MINIMUM OIL PRESSURE CONTACT.
  - EXCESSIVE WATER TEMPERATURE CONTACT.
  - COOLANT WATER PREHEAT WITH THERMOSTATIC CONTROL.

### 8. COUPLING

The generator set (engine & alternator) is directly coupled on a welded steel MS Girder platform by means of an SAE flange. There are a series of Rubber Absorption Dampers installed between the generator set and the frame to absorb any vibrations the generator set might produce.

### 9. FUEL SYSTEM

The base frame will have a built-in fuel tank with a minimum capacity of 500 liters or 10 hours on full load.

(CONT.)

MARELLI (ΜΛΙΛΥSIΛ)				
MJB-315-5A4				
0.8				
50				
IP 23				
н				
1500				
Auto (with accuracy of $\pm$ 0.5 %)				
BRUSHLESS (SELF EXCITATION)				
03 PHASE AND 04 WIRES				
10% FOR 1 HOUR EVERY 12 HOURS				
2/3 (12)				
FLEXIBLE DISC				
WINDING TEMPERATURE SENSORS				
< 2% - AT NO LOAD				
Μлrk V (M16fл655λ)				
STANDARDS IEC 60034-1; CEI 2-3; BS 4999-5000; NEMA MG 1.22				

# **RATINGS DEFINITION**

## PRIME POWER:

POWER AVAILABLE AT VARIABLE LOAD IN LIEU OF MAIN POWER NETWORK. AN OVERLOAD OF 10% IS PERMITTED FOR ONE HOUR IN EVERY TWELVE HOURS OF OPERATION.

## STANDBY POWER:

POWER AVAILABLE AT VARIABLE LOAD IN THE EVENT OF A MAIN POWER NETWORK FAILURE.NO OVERLOAD IS PERMITTED.

These ratings are applicable for supply continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings

# STANDARD REFERENCE CONDITIONS

OUTPUT RATINGS ARE PRESENTED AT 30°C AIR INLET TEMPERATURE, BAROMETRIC PRESSURE 100 KPA, RELATIVE HUMIDITY 30%. THIS GENERATING SET IS DESIGNED TO OPERATE AT HIGH AMBIENT TEMPERATURES (UP TO 55°C), HUMIDITY (UP TO 99%) AND HIGHER ALTITUDES. DE-RATION MAY APPLY, PLEASE CONSULT YOUR DEALER FOR SPECIFIC SITE RATINGS AND SMOOTH OPERATION.

# **AVAILABLE OPTIONS & ACCESSORIES**

WE OFFER A RANGE OF OPTIONAL FEATURES AND ACCESSORIES TO TAILOR OUR GENERATING SETS TO MEET YOUR POWER NEEDS.

Sound / Wenther Proof Canopy	ATS / AMF PANELS				
SYNCHRONIZING PANELS	WATER FUEL SEPARATOR				
Additional protection alarms and shutdowns					
WATER JACKET HEATER	Cabling and Ducting				
REMOTE MONITORING SYSTEM	EARTHING SYSTEM				

### THE RECOGNIZE BRAND OF



### **10. GENERATOR CONTROL PANEL** Μλκε DEEP SEA MODEL DSE-4520 THE MAIN CONTROL PANEL CABINET PROVIDES AN AUTOMATIC CONTROL FOR THE STARTING OF THE GENERATOR SET WHEN A MAINS FAILURE OCCURS. THE DSE-4520 IS AN AUTO START CONTROL MODULE FOR SINGLE GENSET APPLICATIONS. IT INCLUDES A BACKLIT LCD DISPLAY WHICH CLEARLY SHOWS THE STATUS OF THE ENGINE ALL THE TIMES. THIS MODULE CAN EITHER BE PROGRAMMED USING THE FRONT PANEL OR BY USING THE DSE CONFIGURATION SUITE PC SOFTWARE. THE CABINET INCLUDES. CIRCUIT BREAKER(S) BUS BAR MEASURING INSTRUMENTS VOLTMETER • AMPERE METER FREQUENCY METER TIME (HOURS) REORDER KILOWATT METER FAILURE TO START LOW LUBRICATING OIL PRESSURE UNDER/OVER VOLTAGE OVER FREQUENCY HIGH COOLANT TEMPERATURE SWITCH GENERATOR OVER LOAD GAUGES OIL PRESSURE GAUGE WATER TEMPERATURE GAUGE RPM METER EMERGENCY STOP PUSH BUTTON SELECTORS TO SELECT THE GENERATOR'S OPERATING MODE "OFF-AUTOMATIC -MANUAL AND TEST" TO SWITCH THE GENERATOR TO TEST POSITION: "ON-OFF" PUSHBUTTONS EMERGENCY SHUTDOWN RED BUTTON FAILURE TO START LOW LUBRICATING OIL PRESSURE UNDER/OVER VOLTAGE HIGH COOLANT TEMPERATURE SWITCH OVER CRANK GENERATOR OVER LOAD FAIL TO START / OVER CRANK 11. FACTORY TESTS THE GENERATING SET IS LOAD TESTED BEFORE DISPATCH IN OUR FACTORY. ALL PROTECTIVE DEVICES ARE SIMULATED. THE GENERATOR AND ITS SYSTEM

ARE CHECKED BEFORE DISPATCH.

ONE SET OF COMPLETE SPARE PARTS LIST, ENGINE & ALTERNATOR MAINTENANCE MANUAL.

ONE SET OF ENGINE OPERATION MANUAL AND PART CATALOGUE.