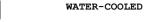
# VITOLUX POWER GENERATOR









FOUR STROKE HEAVY DUTY HIGH PERFORMANCE INDUSTRIAL DIESEL ENGINE.

STANDARD SPECIFICATIONS

3 PHASE

50HZ

2. ENGINE FILTRATION SYSTEM

· AIR FILTER

• FUEL FILTER

• FULL FLOW LUBO OIL FILTER

ALL FILTERS HAS REPLACEABLE ELEMENTS

DIESEL FUEL

3. COOLING SYSTEM

EFFICIENT WATER-COOLED SYSTEM WITH COMPLETE SAFETY GUARDS, DESIGNED TO COOL THE ENGINE AT HIGH AMBIENT TEMPERATURES (CONSULT US FOR DE-RATION FACTORS)

4. EXHAUST SYSTEM

HEAVY DUTY INDUSTRIAL EXHAUST SILENCER

5. CIRCUIT BREAKER TYPE DELIXI MCCB 3POLE

	Fragile  Mighture-proof  Stacking limit by number	Moisture-proof,  Stacking limit by number
C VITOLUX ANALYSIS RESISTANCE ANALYSIS RESISTA		
	16.	

GENERATING SET MODEL		MTS44
OUTPUT RATING	PRIME	STANDBY
400/230V,3PH, 50HZ,1500RPM	40KVA	44KVA
	32KW	35KW

	ENGINE TECHNICAL DATA	
ENGINE MAKE	MITSUB	ISHI
ENGINE MODEL	<b>S4</b> S-1	ЭT
GOVERNING TYPE	MECHAN	ICAL
NUMBER OF CYLINDERS	4	
CYLINDER ARRANGEMENT	IN-LI	NE
BORE AND STROKE (mm)	94 X	120
DISPLACEMENT	3,331	Ŀ
ASPIRATION	NATURAL-AS	PIRATED
CYCLE	4 STR	OKE
COMPRESSION RATIO	1	
COOLING SYSTEM	WATER-CO	OLING
FREQUENCY & ENGINE SPEED	50HZ & 1	500RPM
	PRIME	STANDBY
GROSS ENGINE POWER kW	37.5kW	-
FUEL CONSUMPTION @ 100% L/hr	9,1	-
FUEL CONSUMPTION @ 50% L/hr	-	-

ALTER	NATOR DATA		
MAKE		STAMFORD	
MODEL		PI 144J	
NO.OF	BEARINGS	1	
INSUL	ATION CLASS	н	
WIRES		12	
INGRE	SS PROTECTION	IP23	
EXCIT	ATION SYSTEM	SHUNT	
VOLTA	GE	±1%	

DIMENSION & WEIGHT	
LENGTH mm	1900
WIDTH mm	780
HEIGHT mm	1000
WEIGHT*kg	773
FUEL TANK CAPACITY	75L

CONTROL PANEL	
MAKE	SMARTGEN
MODEL	HGM6120NC

PLEASE REFER TO 6120NC BROCHURE FOR MORE DETAILS

AN INSPIRED DESIGN TO MEET YOUR NEEDS

## VITOLUX POWER GENERATOR

#### RATINGS DEFINITION

#### PRIME POWER

THESE RATING ARE APPLICABLE FOR SUPPLYING CONTINUOUS ELECTRICAL POWER (AT VARIABLE LOAD) IN LIEU OF COMMERCIALLY PURCHASED POWER. 10% OVERLOAD POWER IS AVAILABLE FOR 1HOUR IN 12HOURS CONTINUOUS OPERATION.

## STANDBY POWER

THESE RATING ARE APPLICABLE FOR SUPPLYING CONTINUOUS ELECTRICAL POWER (AT VARIABLE LOAD) IN THE EVENT OF A UTILITY POWER FAILURE. NO OVERLOAD IS PERMITTED.

#### STANDARD REFERENCE CONDITIONS

OUTPUT RATING ARE PRESENTED AT 27°C AIR INLET TEMPERATURE, BAROMETRIC PRESSURE 100kPa, RELATIVE HUMIDITY 30%. THIS GENERATING SET IS DESIGNED TO OPERATE AT HIGH AMBIENT TEMPERATURE (UP TO 52℃), HUMIDITY (UP TO 90%) AND HIGH ALTITUDES. DE-RATION MAY APPLY, PLEASE CONSULT US FOR SPECIFIC SITE RATINGS.

## AVAILABLE OPTIONS & ACCESSORIES

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

### OPTIONS

- A VARIETY OF GENERATING SET CONTROL AND SYNCHRONIZING PANELS
- ADDITIONAL PROTECTION ALARMS AND SHUTDOWNS
- WATER FUEL SEPERATOR
- WATERJACKET HEATER
- BATTERY CHARGER

#### ACCESSORIES

- GENUINE SPARE PARTS
- AUXILIARY FUEL TANKS
- MANUAL & AUTOMATIC TRANSFER SWITCHS

8.2 ANTI-VIBERATION MOUNTING DUMPER DUMPER ARE AFFIXED BETWEEN THE ENGINE & ALTERNATOR FEET AND THE CHASSIS, THUS ENSURING COMPLETE VIBRATION ISOLATION OF ROTATING ASSEMBLY.

#### 8.3 COUPLING

MEANS OF AN SAE FLANGE. THE ENGINE FLYWHEEL IS FLEXIBLY COUPLED TO THE ALTERNATOR ROTOR.

#### 8.4 SAFETY GUARDS

THE FAN & FAN DRIVE ALONG WITH THE BATTERY CHARGING ALTERNATOR ARE SAFETY GUARD PROTECTED FOR . THE INSULATION SYSTEM IS CLASS H PERSONAL PROTECTION.

- 9. TESTS
- THE GENERATING SET IS LOAD TEST BEFORE DISPATCH.
- ALL PROTECTIVE DEVICES CONTROL FUNCTIONS AND SITE LOAD CONDITIONS ARE SIMULATED. THE GENERATOR AND IT'S SYSTEMS ARE CHECKED BEFORE DISPATCH.
- 10. EQUIPMENT FINISHING

ALL MILD STEEL COMPONENTS ARE FULLY DEGREASED AND PAINTED WITH POWDER COATED PAINT TO ENSURE MAXIMUM 7.2 AUTOMATIC VOLTAGE REGULATOR (AVR) SCUFF RESISTANCE AND DURABILITY.

## 11. EQUIPMENT FINISHING

OPERATION & MAINTENANCE MANUAL, CIRCUIT WIRING DIAGRAMS.

## 12. QUALITY STANDARDS

THE EUQIPMENT MEETS THE FOLLOWING STANDARDS: BS4999, BS5000, BS5514, IEC60034, VDE0530 AND ISO8528

#### 13. WARRANTY

ALL OF THE GENERATING SETS ARE COVERED UNDER A WARRANTY POLICY FOR A PERIOD OF 12MONTHS OR 1 YEAR 8.1 CHASSIS (WHICHEVER COMES EARLIER) OF THE EQUIPMENT IS IN LINE WITH MANUFACTURERS WARRANTY TERMS AND CONDITIONS.

STANDARD SPECIFICATIONS

#### 6. FUEL SYSTEM

ON GENERATING SETS UP TO 750KVA STANDBY, THE CHASSIS DESIGN IS INCORPORATED WITH INTEGRAL FUEL TANK WITH A CAPACITY OF APPROX 5HOURS TO 8HOURS RUNNING AT FULL LOAD. THE TANK IS SUPPLIED COMPLETE THE ENGINE AND ALTERNATOR ARE DIRECTLY COUPLED BY WITH FILL CAP, BREATHER, FUEL FEED AND RETURN LINES TO THE ENGINE AND DRAIN PLUG.

- 7. ALTERNATOR
- 7.1 INSULATION SYSTEM
- ALL WINDINGS ARE IMPREGNATED IN EITHER A TRIPLE DIP THERMOSETTING LIQUID, OIL AND ACID RESISTING POLYESTER VARNISH OR VACUUM PRESSURE IMPREGNATED WITH A SPECIAL POLYESTER RESIN.
- HEAVY COAT OF ANTITRACKING VARNISH ADDITIONAL PROTECTION AGAINST MOISTURE OR CONDENSATION
- THE FULLY SEALED AUTOMATIC VOLTAGE REGULATOR MAINTAINS THE VOLTAGE REGULATION AT ±1%.
- 7.3 MOTOR STARING (OPTIONAL)
- AN OVERLOAD CAPACITY EQUIVALENT TO 300% OF THE FULL LOAD IMPEDANCE AT ZERO POWER FACTOR CAN BE SUSTAINED FOR 10 SECONDS, WHEN AREP (AUXILIARY WINDING) OPTION IS FITTED.
- 8. MOUNTING ARRANGMENT

THE COMPLETE GENERATING SET IS MOUNTED AS A WHOLE ON A HEAVY DUTY FABRICATED STEEL CHASSIS.

IN LINE WITH CONTINUOUS PRODUCT DEVELOPMENT, WE RESERVE THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.