MINH PHU ELECTRIC

IN POWER WE TRUST

● Model: MPE-15I

Powered by ISUZU

● Generator Specification

Service	PRP(1)	ESP(2)
Power (kVA)	15	17
Power (kW)	12	13
Rated speed (r.p.m)	1500	
Standard voltage (V)	400/230V	
Rated at power factor (cos phi)	0.8	

(1) PRP (Prime Power):

According to ISO8528-1, prime power is available continuously during the period of power outage in a variable load application. Variable load should not exceed a 70% average of the prime power rating during any 24 hour period. A 10% overload capability is available for a period of 1 hour within a 12 hour period of operation.

(2) ESP (Standby Power):

According to ISO 8528-1, standby power is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

Standard reference Conditions

Note: Standard reference condition 25°C (77°F) air inlet temp, 100m(328ft) A.S.L 30% relative humidity. Fuel consumption dat with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998. Class A2

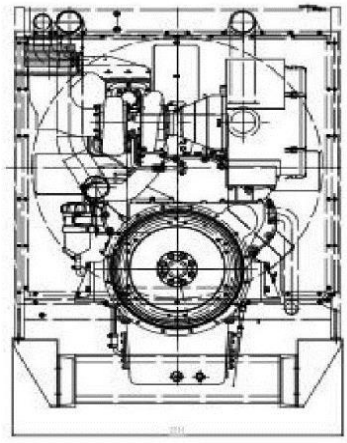
Quality Standards

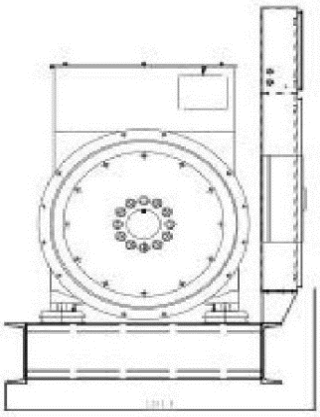
To BS4999/5000 pt 99, VDE 0530, UTE5100, NEMA MG1-22, CEMA, IEC 34, CSA A22.2, AS1359, BS5514, ISO 3046, ISO 8528, ISO9001, ISO14001, CE Compliance

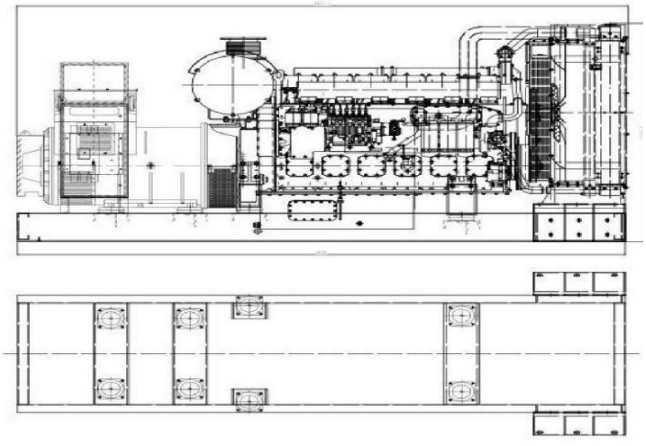
CE ISO 9001 QUALITY ASSURANCE

Performance Data		
Model		MPE-15I
Speed control type		Electronic
Phase		3
Control system		Digital
Starter motor voltage		12/24V
Frequency		50HZ
Engine speed		1500
Fuel Consumption (L/H)	100% standby power	-
	100% prime power	5.1
	75% prime power	3.8
	50% prime power	2.6

Dimension and Weight		
Dimension	Open	Silent
Length (L) mm	1400	1950
Width (W) mm	700	850
Height (H) mm	1050	1120
Net Weight (Kg)	500	700
Fuel Tank (L)	70	-







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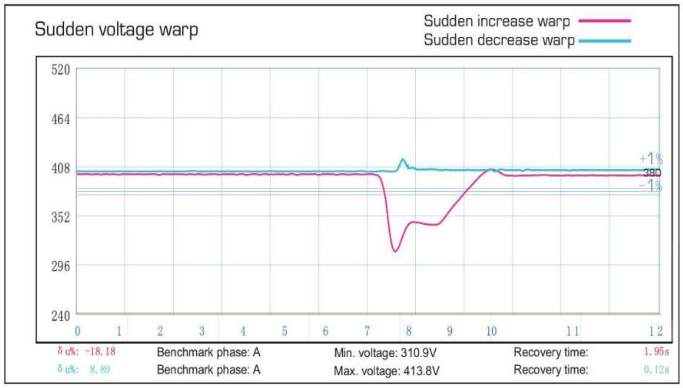
● Specification:

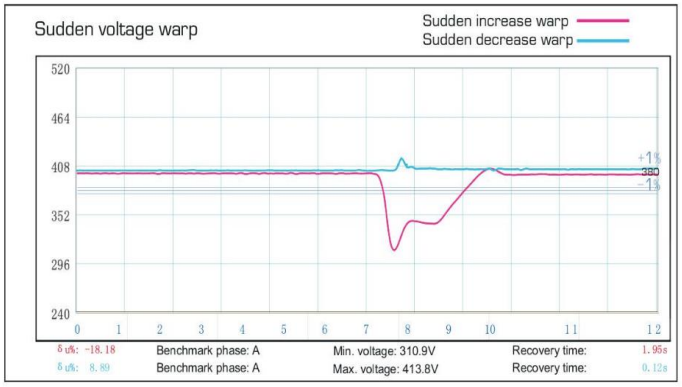
Engine	
Engine manufacturer	ISUZU
Engine model	4JB1
No. of cylinders	4
Cylinder arrangement	Vertical in-line
Cycle	4 stroke
Air intake way	Turbocharged and air-air aftercooled
Compression ratio	17.4:1
Bore	93 mm
Stroke	102 mm
Displacement	2.779 L
Governor Type	Electronic
Starting system	Electric motor start

Alternator	
Alternator manufacturer	MPE
Alternator model	BC164D
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standard)	Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP Rating	IP23
Excitation system	Brushless
Bearing	Single bearing
Voltage regulator	A.V.R
Couping	Flexible disc

Emergency voltage curve



Emergency frequency curve



● Options

Engine	Alternator	Generator Sets	Fuel System
· Water Jacket Pre-heater · Fuel heater	· Winding Temp measuring Instrument · Alternator Pre-heater · PMG · Anti-damp and anti-corrosion treatment · Anti-condensation heater · Winding and bearing RTD	· Tools with the machine · Extended range fuel tank · Bunded fuel tank	· Low fuel level alarm · Automatic fuel feeding system · Fuel T-valves
Canopy	**Lub oil system**	**Cooling System**	**Control Panel**
· Rental type Canopy · Trailer	· Oil Pre-heater · Oil temp sensor	· Front heat protection	· Remote control panel · ATS · Synchronizing controller · Adjustable earth leakage relay

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● Control Panel

Configuration

· Emergency stop button
· Protection MCB
· Batter y charger
· Integrated aviation plug
· ATS connection
· Digital control module

Features

· 3 phase generator set monitoring
· Suppor t of engines equipped with electronic control unit
· Comprehensive diagnostic message
· Automatic or manual star t/ stop of the gensets
· Push buttons for simple control, 15
· Graphic back-lit LCD display
· Parameters adjustable via keyboard or PC
· Mains measurements (50HZ/60HZ)
· Generator measurements (50HZ/60HZ)
· Comprehensive shutdown or warning on fault condition
· 3 phase Generator protections
  - Over-/under voltage
  -Over-/under frequency
  -Current/voltage asymmetr y
  -Over current/overload
· 3 phase AMF function
  - Over-/under frequency
  - Over-/under voltage
  - Voltage asymmetr y
· Configurable analog inputs
· Batter y voltage, engine speed (pick-up) measurement
· Configurable programmable binar y inputs and outputs
· Warm-up and cooling functions
· Generator C.B. and Mains C.B. control with feedback and return timer
· RS232 interface
· Modem communication support
· Hours counter
· Sealed to Ip65
· Event log

Benefits

· Less wiring and components
· Integrated solution
· Less engineering and programming
· User friendly set-up and button layout
· Module can be configured to suit individual applications
· PC software for simplified configuration
· Wide range of communication capabilities

Operation conditions

· Operation temp: -20 ˚C to + 70 ˚C
· Storage temp: -30 ˚C to + 80 ˚C
· Operating humidity: 95% w/o condensation
· Vibration: 5-25Hz, ±1.6 mm
  5-100Hz, a= 4g
· Shocks: a= 500m/s²

Options

· Ethernet interface (Remote monitoring and control)
· GSM modem/wireless internet (Remote monitoring and control)
· RS232-RS485 Dual por t interface
· Synchronizing control panel
· Distribution board with sockets kit and power busbar
· Batter y trickle charge ammeter
· Earth leakage protection
· Earth fault protection
· Low fuel level alarm
· Low fuel level shutdown
· High fuel level alarm
· Fuel transfer system control
· Low coolant level shutdown
· High lube oil temp shutdown
· Overload via alarm switch on breaker
· Engine coolant heater controls
· Control panel heater
· Speed adjust switch
· Oil temp displayed on LCD screen
· Additional 8 inputs and outputs

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