

Energy Solutions for a brighter future...

MTU - PPU2090 Portable Generator

3-Phase Rated Prime Power 1,464 kWe / 1,830 kVA

GENERATOR SET PERFORMANCE

Application

A factory designed generator set equipped with a standard AC/DC generator control panel. The generator set is ready to be connected to your fuel and power line to start up once the installation completed. **All generators are housed in 40' ISO containers.**

Applicable Definitions

Prime: Applicable for supplying emergency power at varying load in the event of normal utility power interruption. 10% overload is allowed.

Applicable Standard

Generator sets design, assembly and testing meet or exceed many international standards. The power rating is set in accordance with ISO 8528, ISO 3046-1 and SAEJ1995/J1349.

Structure Outline

The generator set has selected materials and equipment of high performance, which are durable and anti-vibration. The assembly work meets the quality control system.

The concept of the design and manufacturing is for easy operation and maintenance, to be compact and light weight too.

The single bearing alternator frame is coupled to the engine housing directly. With one end of the rotor is supported by bearing and the other end of rotor shaft is connected to the engine flywheel with a steel laminate plates.

All components and necessary equipment are mounted on the common skid base.

Rubber Isolator Mounting

The rubber isolators are mounted between engine, alternator and its common skid base.

Applicable Conditions		Dimensions and Wo	eight (PPU Gen Set)
Installation Place	: Indoor/Outdoor	Overall Length	: 12,192 mm
Ambient Temperature	: 40°C	Overall Width	: 2,438 mm
Air Intake Temperature	: 40°C	Overall Height	: 2,896 mm
Altitude	: 400 m	Weight	: Approx. 21,500kg

Painting Color

Engine	: MTU Blue	Panel Model	: V500
Alternator	: Blue / Black	Controller Model	: AMF25
Generator Control Panel	: Black	Controller Brand	: ComAp
Skid Base	: Black	Mounted	: Set Mounted

Control System

^{*} Materials and specifications are subjected to change without prior notice.



MTU - PPU2090 Portable Generator

Diesel Power 60Hz - 460V 3-Phase Rated Voltage

Containerized Generator Set TECHNICAL DATA

Maker and Model Rating Type Rating Maker Charge Air Cooling 1.25kWe (70%)		IECHNICAL DE	11A
Rating Type	ENGINE	Maker and Model	MTU 12V4000G63
Engine Output Engine Load Acceptance Aspiration Cylinder Arrangement Type Bore x Stroke Piston Displacement Starting Method Charging Alternator Cooling Fan and Diameter Oil Cooler Air Cleaner Stop Solenoid Flywheel Housing / Flywheel, Flywheel Ring Gear Teeth Battery (Lead Acid Type) Frequency Regulation, Transient State Frequency Regulation, Transient State Frequency Regulation Range ENGINE COOLANT Oil Pan (High / Low Level) Oil Filter /By-pass Filter System Cooling System Engine Capacity Radiator Capacity Read acid Capacity Heat Dissipation ENGINE DATA Engine Shutdown Device Coolant Temp (Sensor Type) Oil Engine Shutdown Device Coolant Temp (Sensor Type) Oil Aspiration Olymate Arrangement 12 Vee Water Cooland, 4 Cycles, Overhead Valve 170mm x 210mm 57.2 Liters Electric Motor, 24V – 90kW x 2 DC 24V – 35A (Brushless) 8 Blades Pusher Type, 1830mm Water Cooled, Multi-plate Type Dry Type, Single Stage Paper Element Energized to Run Mode SAE #00 / SAE #21 (Metric Tread) Frequency Regulation, SAE #00 / SAE #21 (Metric Tread) Fall Cool And Sae #100 / SAE #21 (Metric Tread) SAE #00 / SAE #00 / SAE #21 (Metric Tread) SAE #00 / SAE #00 / SAE #0		Rating Type	Prime
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Thermostat (Wax Type) Water Coolant Engine Shutdown Device Coolant Temp (Sensor Type) Oil Common Rail System Cracking 79C, Fully Open 87C Toacking 79C, Fully Open 87C Cracking 79C, Fully Open 87C			
Water Coolant Cracking 79C, Fully Open 87C Engine Shutdown Device Coolant Temp (Sensor Type) Oil 104 C			
Engine Shutdown Device Coolant Temp (Sensor Type) Oil 104 C			
Coolant Temp (Sensor Type) Oil 104 C			Cracking 790, Fully Open 870
Pressure (Sensor Type) 3.6 bar			
		Pressure (Sensor Type)	3.6 bar
BSFC (at 100% Load) 193 g/kWh		BSEC (at 100% Load)	193 a/k\/\/h
FUEL Lubricating Oil (Max.)	FUEL		
CONSUMPTION Euclided (Max.) Fuel Rate 379 liter/hr			
ruei rate 3/9 illei/ill		Fuel Rale	379 III.ei/III

^{*} Materials and specifications are subjected to change without prior notice.

PUWER FACTOR MTU - PPU2090 Portable Generator

Diesel Power 60Hz Containerized Generator TECHNICAL DATA

TECHNICAL DATA				
Model Construction Control System Insulation / Temperature Rise	PI734E1 Single Bearing, Self Ventilated MX321 with PMG Excited Class H / Class F			
Protection Rated Power Factor Efficiency (Cont. 100%)	IP23 0.8 95.8 at 1520kW (400V)			
No of Pole and Phase Stator Winding Winding Pitch	4 Poles 3 Phase 4 Wire Double Layer lab 2/3			
Winding Leads Voltage Regulation, Steady State Voltage Regulation, Transient	6 ≤±0.5% +20 -15v			
State Voltage Stable Time Voltage Waving	≤0.5% ≤±0.5%			
Voltage Regulation(at No Load) Voltage Waveform Distortion	95 105% < 1.5%			
No Load Non-Distorted Balanced Linear Load	< 5.0% 2250kVA			
Maximum Overspeed Telephone Interference Voltage Dip at 15% Voltage Dip at 20%	THF<2 / TIF<50 1500kVA 2100kVA			
Combustion Air Flow Cooling Fan Air Flow Alternator Air Flow Total	108.0 m³/min 1,824 m³/min (55°C Radiator Air Intake) 161.4 m³/min 2,093.4 m³/min			
Gas Flow (at Full Load)	270 m ³ /min			
Temperature (at T/C Outlet) Allowable Back Pressure Bellow Size (Inner Diameter)	440 C 85 mbar 250 x 2mm			
Diesel Fuel (Grade) Pipe Size of Fuel Line	ASTM D975, 1-D or 2-D (Refer to MTU Fluid & Lubricant Specification A001 061/33E)			
Supply / Return (Minimum) Inch Gen Set Controller	1.5 / 1.0 ln. ComAp AMF25			
Analog Measurement	Coolant Temperature Engine Oil Pressure Engine Speed			
AC Measurement	Battery Voltage Hour Run Fuel Level (Optional) Gen U1 – U3 Gen I1 – I3 Gen Frequency Gen Active Power			
	Gen Power Consumption Mains U1 – U3 Mains Frequency Mains Voltage (L1-L2, L2-L3, L3-L1)			

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PUWER FACTOR MTU - PPU2090 Portable Generator

**Genset Output Data Display and Protection

**Power Monitoring System

**Genset Status Display and Protection

**Fault LED Indicators

**Genset Remote Start-up and Auto Start-up

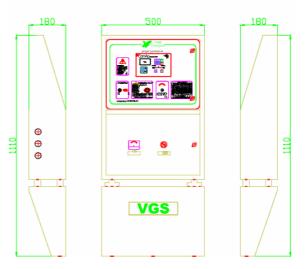
**Modular design & expandable

V500 Genset Control System Features:

InteliLite[®] Genset Controller features with multiple functions for Genset control, operation and protection. It provides logical control and Graphical LCD display for local or remote applications. These features include:

- (1) Auto/Manual Start-Stop
- (2) Phase sequence detects and protection
- (3) 128*64 LCD display
- (4) Genset overspeed protection
- (5) Oil pressure display and protection
- (6) Water Temperature display and protection
- (7) DC Volt measurement and Over/Under Volt protect
- (8) Fuel Level detect and alarm
- (9) Engine idle support
- (10) Lube Oil Timer
- (11) Electrical Measurement
 - a. Active Power
 - b. Reactive Power
 - C. Voltage(L-L/L-N)
 - d. Frequency
 - e. Line Currents
 - f. kWh
 - g. kVAh
- (12) Protections:
 - a. Over/Under Voltage
 - b. Over/Under Frequency
 - c. IDMT Over-current
- (13) LED Indicator for Normal/Breaker Close/Breaker Open/Alarm
- (14) Programmable I/O s
- (15) Hour-run meter
- (16) 100 Event Log
- (17) Support RS232 / Modbus Protocol
- (18) Front Panel IP65 Protection





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