

Standby: kW 100 kVA 100

Gen-Tech power generation equipment has ratings and styles to accommodate all industry requirements. Standby ratings are available for customers with emergency power needs. These needs may include complete utility power failure or instability in power quality, which creates brown out conditions. Prime power ratings are available for customers where utility power is unavailable. This rating is designed for continuous duty, excluding scheduled maintenance requirements.

Gen-Tech's commitment to quality assures customers that all equipment is held to the highest standard. This standard is incorporated in engineering and overall product development. Gen-Tech's values ensure durability, ease of operation, and low maintenance. Most importantly, the Gen-Tech line of products is dependable for long term operation, because we care.

# GTP-0100-S1D-MA

- Heavy duty industrial diesel engine
- Brushless synchronous alternators
- Full featured, programmable, microprocessor based controller
- Factory tested at 100% load requirements
- Full warranty in compliance with all industry standards
- Heavy duty construction with non corrosive components
- 24 Hour customer support
- Full range of accessories and factory installed options available

### **Standby Ratings**

Model	Voltage	Alternator Model	Phase	Hertz	kW/kVA	Amperage	Temp Rise
GTP-0100-S1D-MA	120/240	363PSL1617	1	60	100	416	150

### **Prime Ratings**

Model	Voltage	Alternator Model	Phase	Hertz	kW/kVA	Amperage	Temp Rise
NA	NA	NA	NA	NA	NA	NA	NA

**Engine Specifications** 

Manufacturer **Perkins** 

**Engine Model** 1104D-E44TAG2

**Engine Type** 4-Cycle, In-line, 4 Cylinder

Diesel

Turbocharged and Charge Induction Type

Air Cooled

Displacement - L 4.4 L

**EPA Emissions Level** Tier 3

148 **HP at Rated Speed** 

Rated RPM 1800

Bore x Stroke - Inches 4.13 x 5.0

**Compression Ratio** 16.2:1

Air Filter Type Dry

Governor Type Electronic

Freq Reg NL to FL +/- 5% **Engine Electrical System** 

System Volts - DC 12

**Grounding Polarity** Negative

**Alternator Output** 65A

Minimum CCA 700

**Ventilation Requirements** 

Engine Intake Max Air Flow 300 CFM

**Fuel System** 

Recommended Fuel #2 Diesel

Injection Type Direct

Max Flow to Pump 34 Gal/Hr

**Engine Lubrication System** 

Oil Filter Type Spin On

Oil PSI @ Governed Speed 40-50 **Standby Fuel Consumption** 

100% Load 7.3 Gal/Hr

50% Load 4.25 Gal/Hr

**Engine Cooling System** 

Max Top Tank Temp 233 °F

100% Load NA

50% Load NA

**Prime Fuel Consumption** 

Thermostat Range 185 - 203 °F

**Engine Exhaust System** 

**Exhaust Flow at Rated Speed** 706 CFM Exhaust Temp - Standby 942 °F

# **Alternator Specifications**

Manufacturer Marathon Electric

Type 4 Pole Brushless

Insulation Class H

Bearing Double Shielded Per-

manently Lubricated

### **Automatic Voltage Regulator**

Standard Model SE350

Std Voltage Regulation 1%

PMG Option PM500

# **Standard Controller Specifications**

- LCD Display
- Real Time Clock Provides Accurate Event Logs
- Configurable Display Languages
- Password Protected
- Engine Protection Features
- Key Menu Navigation
- Durable Soft Touch Membrane Buttons
- Fully configurable via PC Software
- LCD Alarm Indication
- Engine Exercise Mode
- kWh Monitoring
- Configurable Inputs and Outputs
- Configurable Timers and Alarms
- UL Recognized
- Front Panel Programming
- CAN Input

#### Alternator Standards

Meet the requirements of BS5000, VDE0530, UTE5100, NEMA MG1-22, CEMA, IEC34-1, CSA22.2, and AS1359.

# **Voltage Regulator**

Solid State Automatic voltage regulator with high efficiency semiconductors ensure positive build up from initial low levels of residual voltage.

#### Insulation

Class "H" insulations provides the protection from the harsh environments and mechanical strength for the rotating components

Dynamically balanced, 2/3 pitch wound, < 2% TIF, Low RFI, Quality assurance by ISO9001 certification

# Operation

MANUAL This mode is used to manually start the engine.

AUTO This mode is used to automatically start the

engine. The module will be started by the re-

mote start signal.

STOP This button is used to stop the engine when it

is running in either manual or automatic mode.

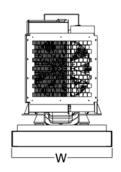
#### Additional Standard Genset Features

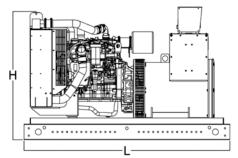
- Integral Vibration Isolation
- Unit Mounted Radiator
- Engine Mounted Fan
- Radiator Core and Fan Guards
- Battery Charging Alternator
- Battery Cables
- Unit Mounted Control Panel
- Spin-On Filters for Oil and Fuel
- One Set Operation/Maintenance Manual
- Factory Tested Prior to Shipment
- Limited Warranty

### **Dimensions**

Overall Dimensions Inches Length x Width x Height 86 x 36 x 49

Note: Drawing is provided for reference only. Use engineering outline for project planning.





# **Available Accessories and Options**

#### Alternator Accessories

- PMG Exciter and AVR Upgrade
- Alternator Space Heater
- Exciter Field Circuit Breaker
- Alternator Drip Shield

### **Genset Accessories**

- Voltage Adjustment Potentiometer
- Starting Battery
- Battery Heater
- Engine Coolant Heater
- Oil & Coolant Drain Valves
- Oil & Coolant Drain Extensions to Base
- Alarm Beacon