



GTP-0100-S1D-MA

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.

- 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
Induction Type	Turbocharged and Charge Air Cooled
Displacement - L	4.4 L
EPA Emissions Level	Tier 3
HP at Rated Speed	148
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 Lubrication System

Oil Filter Type	Spin On
Oil PSI @ Governed Speed	40-50

Engine Cooling System

Max Top Tank Temp	233 °F
Thermostat Range	185 - 203 °F

Engine Exhaust System

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

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
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Fuel System

Recommended Fuel	#2 Diesel
Injection Type	Direct
Max Flow to Pump	34 Gal/Hr

Standby Fuel Consumption

100% Load	7.3 Gal/Hr
50% Load	4.25 Gal/Hr

Prime Fuel Consumption

100% Load	NA
50% Load	NA

Alternator Specifications

Manufacturer	Marathon Electric
Type	4 Pole Brushless
Insulation	Class H
Bearing	Double Shielded Permanently 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 remote 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

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

Dimensions

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

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

