



**ETI Genset**  
AMF  
DG - BTS Unit  
Engine Safety Unit

# DG Controller

EEPL-666

## Engine Protection & Semi-Auto Controller



आत्मनिर्भर भारत अभियान

### Description

- Smart DG Controller is an advanced Microprocessor Controlled DG Protection Unit and has been specifically designed to meet the harsh requirement of Indian conditions. The controller uses a 32 Bit Maxim Processor coupled with 21 bit sigma delta ADC to ensure accuracy of data with reliability and repeatability.
- This universal DG Controller can be used with almost all types of DG and has programmable option for Water /Air cooling and 1 Phase / 3 Phase Selection.
- 2 Line Alphanumeric LCD display has been provided & user can very easily see various parameters, warnings, electrical trips & shut down alarms. Ease of navigation of parameters through front panel keys and use of plug in type of connectors for easy installation & maintenance.
- The variants available are
  - **EAMF-9924** - Advance AMF Controller
  - **EAMF-9920** - Import Substitute AMF Controller
  - **EMAB-600** - BTS Tower Management Controller
  - **DGMC-500** - Basic AMF Controller

### Key Features

- **Manual DG Controller**
- 2 Row, 16 Character LCD Display
- 3 nos Analog Input - Resistive type
- 6 nos Digital Inputs
- Manual and automatic Fuel Pump Control
- Bar Display on LCD
- Engine idle control for Start & Stop
- Fuel usage monitoring and low Fuel Level Alarms
- Protection against Over Cranking
- Logging of Fault History & visible in display
- Uses EIPL Configuration Suite PC Software for simplified configuration
- Display and measurement of Oil Pressure, Water Temperature, Fuel Level in %, Sensor Failure and Battery Status
- Logging of fuel consumption & visible in display
- Engine Run Hours Counter
- Battery Voltage Monitoring
- Comprehensive warning, electrical trip or shutdown protection upon fault condition
- RS-485 Communication
- Additional Prevention Circuitry for Fan Jamming
- Push button for Start, Stop, Reset & Programming
- Interlocking of Panel door for safety of the operator



ISO 9001, ISO 14001 CERTIFIED COMPANY

## Technical Specifications

### DC SUPPLY

- **CONTINUOUS VOLTAGE RATING**  
8 V to 36 V Continuous
- **MAXIMUM OPERATING CURRENT**  
85 mA at 12 V  
96 mA at 24 V
- **MAXIMUM SLEEP CURRENT**  
35 mA at 12 V  
32 mA at 24 V

### GENERATOR (UTILITY)

- **VOLTAGE RANGE**  
70 V to 300 Vac (L - N)  
121 V to 550 Vac (L - L)
- **FREQUENCY RANGE**  
40 Hz to 70 Hz

### MAINS (UTILITY)

- **VOLTAGE RANGE**  
70 V to 300 Vac (L - N)  
121V to 550 Vac (L - L)
- **FREQUENCY RANGE**  
40 Hz to 70 Hz

### INPUTS

- **DIGITAL INPUTS**  
Negative Sensing
- **ANALOGUE INPUTS**  
Resistive sensor

### OUTPUTS

- **OUTPUT - FUEL**  
2A Continuous at Supply Voltage
- **OUTPUT - START**  
2A Continuous at Supply Voltage

### DIMENSIONS

- **OVERALL**  
96 mm x 96 mm x 70 mm
- **PANEL CUT-OUT**  
92 mm x 92 mm
- **MAXIMUM PANEL THICKNESS**  
8 mm

### STORAGE TEMPERATURE RANGE

-10°C to +85 °C

### RELATED MATERIAL

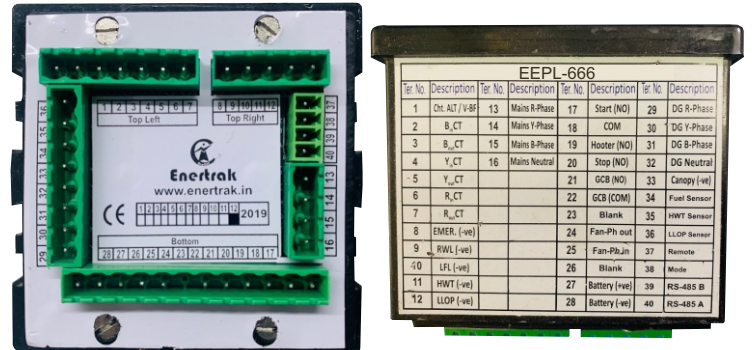
- Specification Sheet - ET01-0666-001
- User Manual & Installation Guide - ET01-0666-002
- GSM Modem Specs Sheet - ET00-485GM-001
- [www.digilive.com](http://www.digilive.com)

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## Communications

- RS-485 port communicates as per MODBUS Protocol.& can be easily configured to an Enertrak GSM/GPRS modem for seamless & live data transmission to a host website application.
- The live data can be seen at our website [www.digilive.com](http://www.digilive.com) with User ID & Password details.
- Ready for Smart IOT (Internet Of Things) with Enertrak GPRS Modem.
- The Real Time Data Streaming on DGLive portal is extremely useful for managing multiple sites without human intervention and also results in control of fuel theft and wastage.
- Analytical Summary in excel sheet can be stored for future reference and documentation.
- Remote Start/Stop thru website can also be done.
- SMS facility also available up to 5 registered person during fault conditions.
- Various parameters which can be monitored directly thru website. i.e. Volt, Amp, Hz, Pf, Power, Energy.

## Connections



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