



ETI Genset
AMF
DG - BTS Unit
Engine Safety Unit

BTS-AMF Controller

EMAB-600

BTS Tower Management Controller



“आत्मनिर्भर भारत अभियान”

Description

- The Smart BTS Controller is an advanced 32 bit Micro controller has been specially designed for the growing demand of BTS network in Indian & International Scenario.
- The primary EMAB-600 is to maintain the voltage across the battery bank and the intelligent unit takes the decision between utility power, solar power & generator power. Only in the condition if no power from electricity board and battery voltage going below the programmable value, it activates the ON SITE Generators and maintains the charging and battery bank output as per requirement.
- Essentially the controller interfaces between the SMPS required to charge the battery at the BTS site and to maintain the power supply of site.
- The variants available are
 - **EAMF-9920** - Import Substitute AMF Controller
 - **EAMF-9924** - Advance AMF Controller
 - **DGMC-500** - Basic AMF Controller
 - **EEPL-666** - Engine Protection & Semi-Auto Controller

Key Features

- **Micro controller Based BTS & Battery Voltage Monitoring System with Logics for Power Saving**
- 3nos analog inputs - resistive type
- 6nos digital inputs
- Temperature Monitoring & In Built Static Relay Drivers
- Reverse BAT Protection & Stable Regulated Power Supply with LDO Output upto 55V
- USB 2.0 Port for Firmware Up gradation and GUI Interface
- Real Time Clock (RTC) is provided for accurate event logging and data analysis.
- BTS Sensing Mode and combination of various intelligent logics for significant Fuel Savings
- RS 485 port is provided for supporting the remote communication
- CT based Current Measurement for Better Isolation
- Various Interlock Features for Tamper Proofing
- Zero Crossover Based Electrical Parameter Metering
- Over Voltage Protection for RS-485
- MOV provided



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

MAINS HIGH & LOW INPUT CUT-OFF

- **HVD input range - 280-300V**
- **LVD input range - 90-95V**

CABINET TEMPERATURE

- **30 - 40°C**

AMF-BTS OVERLOAD

- **45 - 80 A**

BATTERY VOLTAGE LIMIT FOR DG TRIGGER

- **Normal Site - DG Trigger at 47V**
- **Strategic Site - DG Trigger immediately**

AVIATION CONTROL LOGIC

- **Aviation Lamp ON-OFF Time**

DIMENSIONS

- **OVERALL**
140 mm x 113mm x 43 mm
- **PANEL CUT-OUT**
118 mm x 92 mm
- **MAXIMUM PANEL THICKNESS**
8 mm

STORAGE TEMPERATURE RANGE

-10°C to +85 °C

RELATED MATERIAL

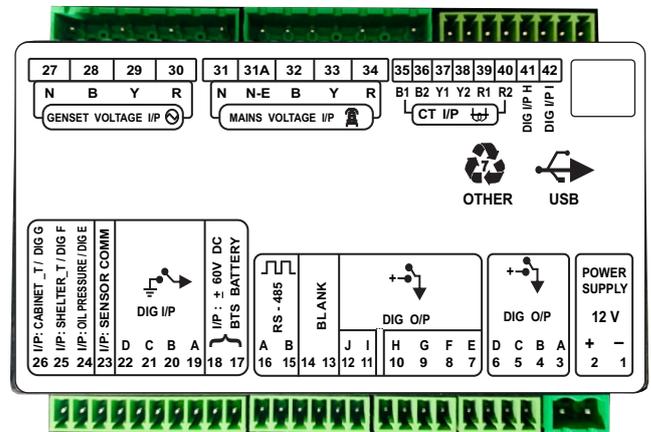
- Specification Sheet - ET05-0600-001
- User Manual & Installation Guide - ET05-0600-002
- PC Software GUI - ET05-0600-003
- GSM Modem Specs Sheet - ET00-485GM-001
- www.digilive.com

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Communications & IOT

- 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 with User ID & Password details.
- USB port communicates as per USB Protocol for interface of AMF Controller with any PC for configuring the settings in the controller by pushing a configurable file. USB port can also be used for SCADA through Enertrak GUI PC Software.
- Ready for Smart IOT (Internet Of Things) with Enertrak GPRS & 4G Modem.
- DATA of each 1 Minute for 7 days can be storage in controller for future requirements.
- The controller is designed in such a way so that the end user can be seamlessly be connected to the network tower and reduces the probability of call drops & other network issues.

Connections



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