

EAM115 GAC to Perkins Interface Module

1 INTRODUCTION

The EAM115 is an interface module that provides conditioned electrical signals for Perkins 1300 Series engine/genset applications (Edi 6e genset). A typical application is where a GAC load sharing/synchronization system is to be connected to such a Perkins engine control system.

The DC supply for the interface comes from the common battery source for the engine control and the accessory controls. The input to the module (Terminal D) is typically 5.0 V DC, which represents the load sharing, and synchronization signals. The output of the EAM115 to the Perkins control is a 2.5 V DC signal based on the Perkins 5.0 V DC reference signal.



2 SPECIFICATIONS

POWER	
Input Impedance (Terminals A and D)	40 K Ω
Output Impedance (Terminals 8 and 11)	100 K Ω
Nominal Output Voltage (Terminals 8 and 11)	2.5 V DC
Nominal DC Input Voltage (Terminals A and D)	5.0 V DC
Output Transfer Function	-1.0 Volts Out / Volt In
DC Supply Voltage Range (Terminals 1 and 11)	15 - 32 V DC
DC Supply Current (Terminals 1 and 11)	20 mA
PHYSICAL	
Temperature Range	-40° - 185 ° F [-40° to +85°C]
Dimensions	1.02 x 3.0 x 3.5 in [25.91 x 101.60 x 118.62]
Mounting	Vertical mounting preferred
Relative Humidity	up to 97%

3 WIRING AND DIMENSIONS



An overspeed shutdown device, independent of the governor system, should be provided to prevent loss of engine control which may cause personal injury or equipment damage. A secondary shutoff device, such as a fuel solenoid, must be used.

The EAM115 interface is connected to the following Perkins chassis side connections:

EAM115	CHASSIS CONNECTIONS
1	24
7	3
8	30
11	11

The common battery minus connection between the Perkins engine control, EAM115, and the GAC auto-sync and load sharing modules should be as direct as possible electrically (minimum voltage difference).

