

Image shown may not reflect actual configuration.

## FEATURES

- Display graphics are configurable with embedded runtime tool that provides the capability to customize screens. This capability supports modern and classic icon graphics. Where classic style has traditional representation for gauges.
- Lockout security provision to assure platform integrity.
- Active screen may be changed by scrolling.
- Display functionality includes off-package start-stop when generator set engine control switch is set to automatic.
- Designed for field installation using mounting template and terminals that facilitate inter-connection at site.
- Field configurable alarm output driver.

Specification	
Touch Screen	Multi-touch w/ gloves
Ethernet	10/100 Base-T, 4 wire 300 ft without Repeater
USB (1)	USB 2.0, 500 mA
Response time	25 ms
Mode Settings	Backlight Saver Options
Real-time clock	Accurate Time
Speaker	Amplified Audio
Alarm Audio Output Terminals	100 mA Driver Output

## Cat<sup>®</sup> Energy Control System (ECS) Off-Package Human Machine Interface (HMI) Display

The Cat ECS Off-Package HMI display uses system graphic icons and labels that allows simple operation. The easy-to-use 203 mm (8 inch) color LED touchscreen display features scroll navigation to provide engine, generator and utility parameters that are multi-language supported.

High-Resolution LCD	
Colors	16.7 million
Backlit	LED
Resolution 8"	800 x 480

Display Readability	
Outdoor Sunlight Viewable	
Polarized Sunglass Compatible	
Dimmable	
Wide Viewing Angles	85° / 85°

Input Voltage and Current Consumption	
Nominal Operation (12/24 V DC)	1.2/0.7A

Environment	
Operating Temp	-40°C to +85°C
Storage Temp	-50°C to +85°C
Ingress Protection	HMI front Face Installed IP66

Interfaces and Connectors	
Primary Connector	44 Position
USB 2.0 (1)	Type-A receptacle

## Enhanced Control Features

### Off-Package Displays

The Cat ECS supports up to four (4) optional full-function off-package HMI displays with the addition of an unmanaged ethernet switch as shown on diagram-1.

### HMI Webserver

The Cat ECS HMIs include an embedded web server. The embedded web server allows the operator to operate a virtual HMI with the same control and permissions as the host HMI (local or off-package, if applicable) over an Ethernet connection to a local and/or off-package station. Custom screen creation is also available. Each HMI webserver is independent.

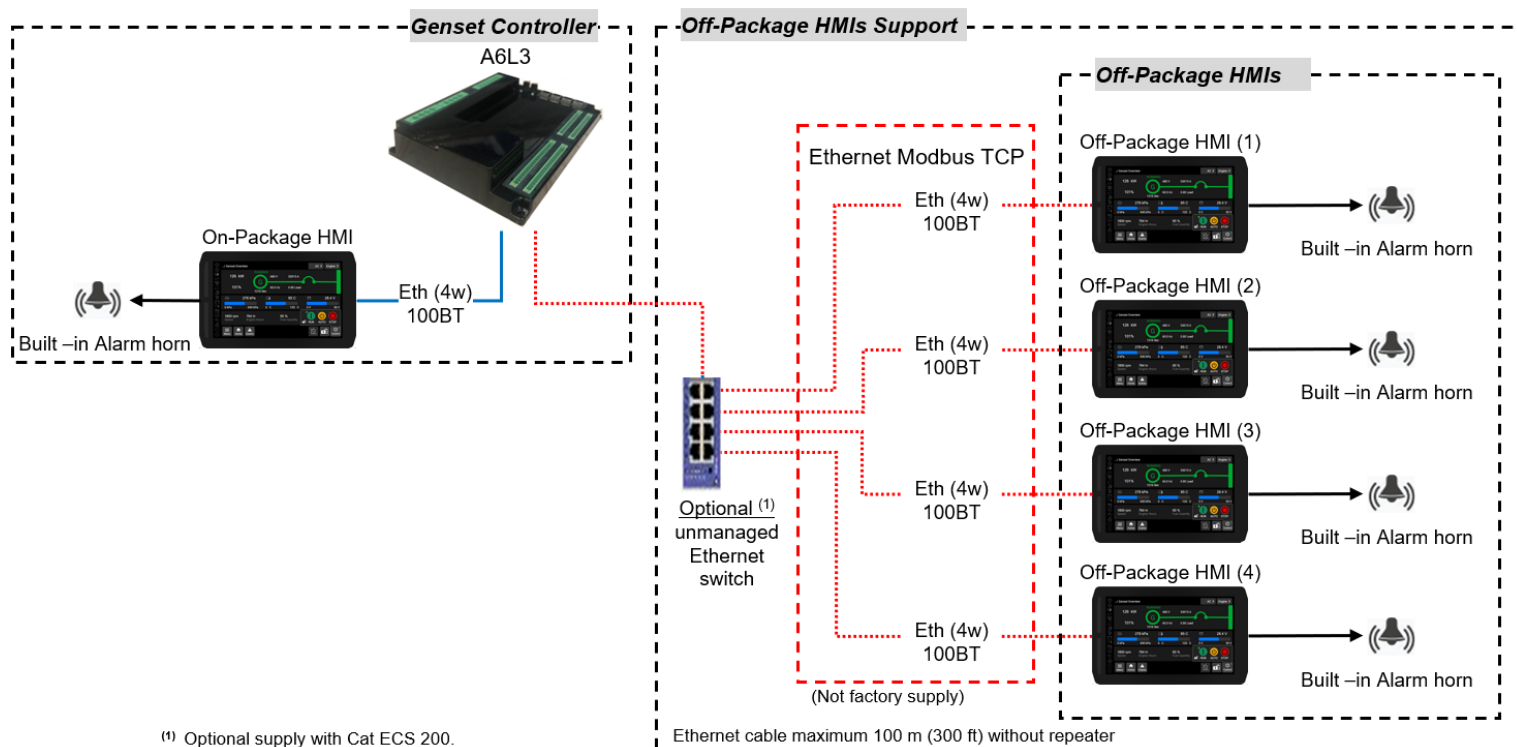


Diagram - 1

## Data (when applicable)

- Histogram and data Logging
- Alarm & Shutdown Reset.
- Condition Status warning (amber) / shutdown (red)

### Generator set data Conditions Displayed (NFPA<sup>®</sup>)\*

- Emergency stop shutdown
- Overcrank shutdown
- Low coolant temperature warning
- High coolant temperature warning / shutdown
- Low oil pressure warning / shutdown
- Overspeed warning / shutdown
- Low coolant level warning / shutdown
- Low fuel level warning / shutdown
- Low gas pressure warning / shutdown
- Genset control switch not in auto warning
- High battery voltage warning / shutdown
- Low battery voltage warning / shutdown
- Low cranking voltage
- Battery charger AC failure warning / shutdown
- EPS\*\* supplying load status
- Air Damper Shutdown
- Overload Alarm
- Custom Event #1
- Custom Event #2

### Engine Data Displayed

- Engine Hours, Total Cranks, Starts
- Temperatures (coolant, air, exhaust)
- Filters Diff. Pressures (oil, air, fuel)
- Pressure (Boost, Intake Manifold)
- Throttle Position, Battery Voltage

### Generator Data Displayed

- Voltage L-L/L-N, Amps, Power Factor
- kW, kVA, kVAr, Hz
- Phase Values (Voltage, kW, Amps, Power Factor)
- Phase Winding Temperature
- Bearing Temperature
- Generator Breaker Status

### Voltage Regulator Data Displayed

- Voltage, Amps
- kW, kVA, kVAr, Hz

### Utility Data Display

- Utility Status
- Voltage L-L/L-N
- Phase Values (Voltage)
- kW, kVAr, Hz
- Utility Breaker Status

\* - National Fire Protection Association  
 \*\* - Emergency Power Supply

## Dimensions

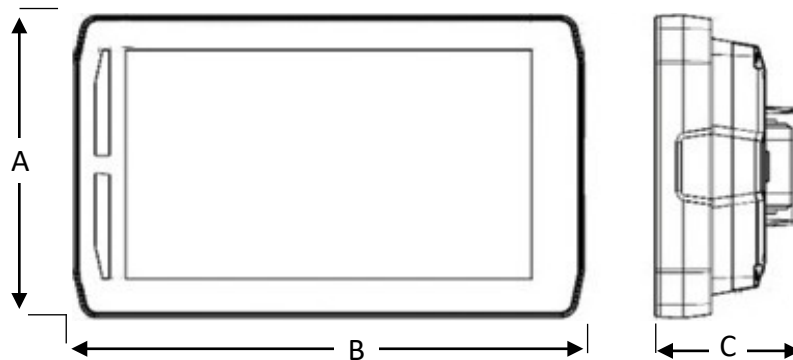


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Dimensions	A	B	C	Weight
Units	mm (in)	mm (in)	mm (in)	kg (lbs)
Measure	139 (5.7)	220 (8.66)	59.4 (2.34)	1.32 (2.91)

## Worldwide Product Support

Cat dealers have over 1,800 dealer branch stores operating in 200 countries and offer extensive post-sale support including maintenance and repair agreements.

Materials and specifications are subject to change without notice.  
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