



Image shown may not reflect actual configuration

Cat® EMCP 4.4 Generator Set Master Controller

EGP4 Configuration

Caterpillar is leading the power generation marketplace with power solutions engineered to deliver unmatched flexibility, expandability, reliability, and cost effectiveness.

General Description

The EMCP 4.4 master control panel is a wall-mounted system that monitors and controls up to four (4) Cat® EMCP 4.4 equipped generator sets.

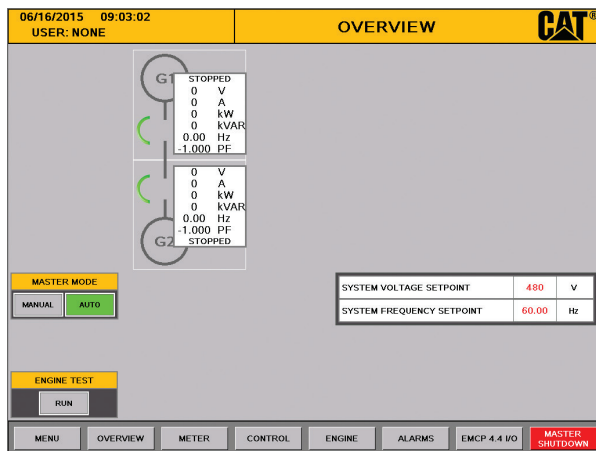
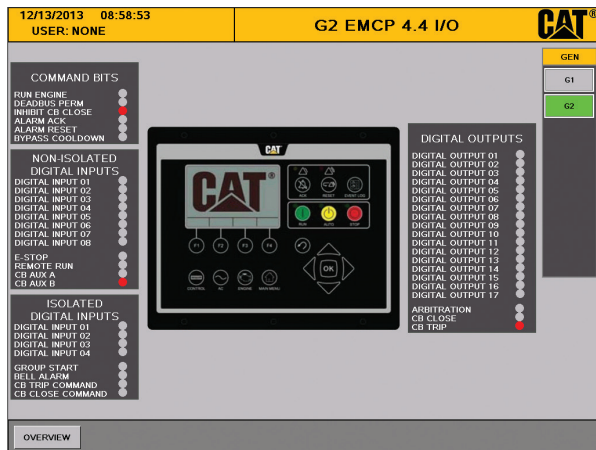
Together with the EMCP 4.4 generator set controllers, this cost-effective approach provides centralized, automatic controls and communications through an intuitive graphic interface.

Features

- 15" color, touchscreen operator interface
- Integral protective functions
- Annunciation and alarm history
- Selectable transition modes to and from generator power
- Selectable load sense/load demand mode to avoid unnecessary generator set operation and reduce fuel consumption
- Automatic load shed/load add control based on available capacity to prevent generator set overloading
- High-speed communications with individual EMCP 4.4 generator set controls provide the operator with control and data acquisition capability of each generator set from a centralized location
- Easy-to-follow, step-by-step installation and start-up instructions
- Password security system for user interface
- Interface capability with SCADA system
- Two-year standard Caterpillar warranty

Operating Modes

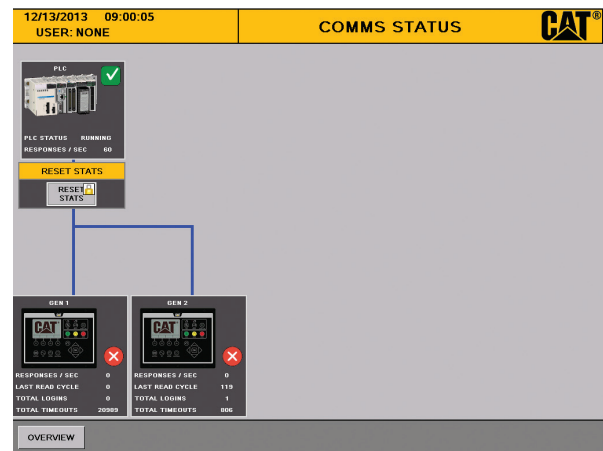
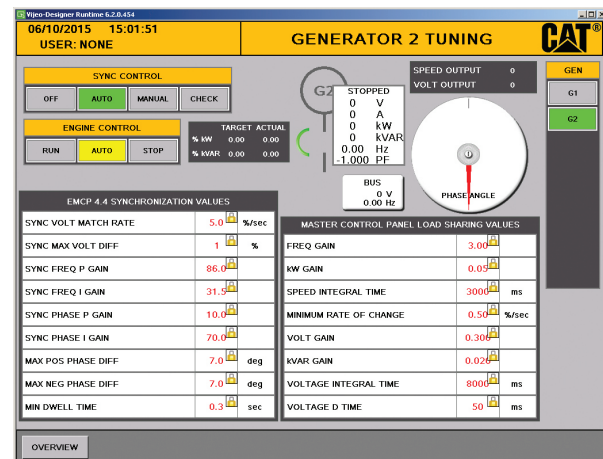
- Emergency standby
- Load sense/load demand
 - Generator set priority or engine-hour balancing
 - Automatically matches on-line generator capacity to the loads
- Load shed/load add
 - Automatic or manual load shed up to four (4) stages
- No load test mode



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User System Requirement

- All Cat diesel engine generators are required to be packaged with EMCP 4.4 configured for MGD
- The EMCP 4.4 master control panel requires an ethernet connection to the EMCP 4.4 generator control on each generator set

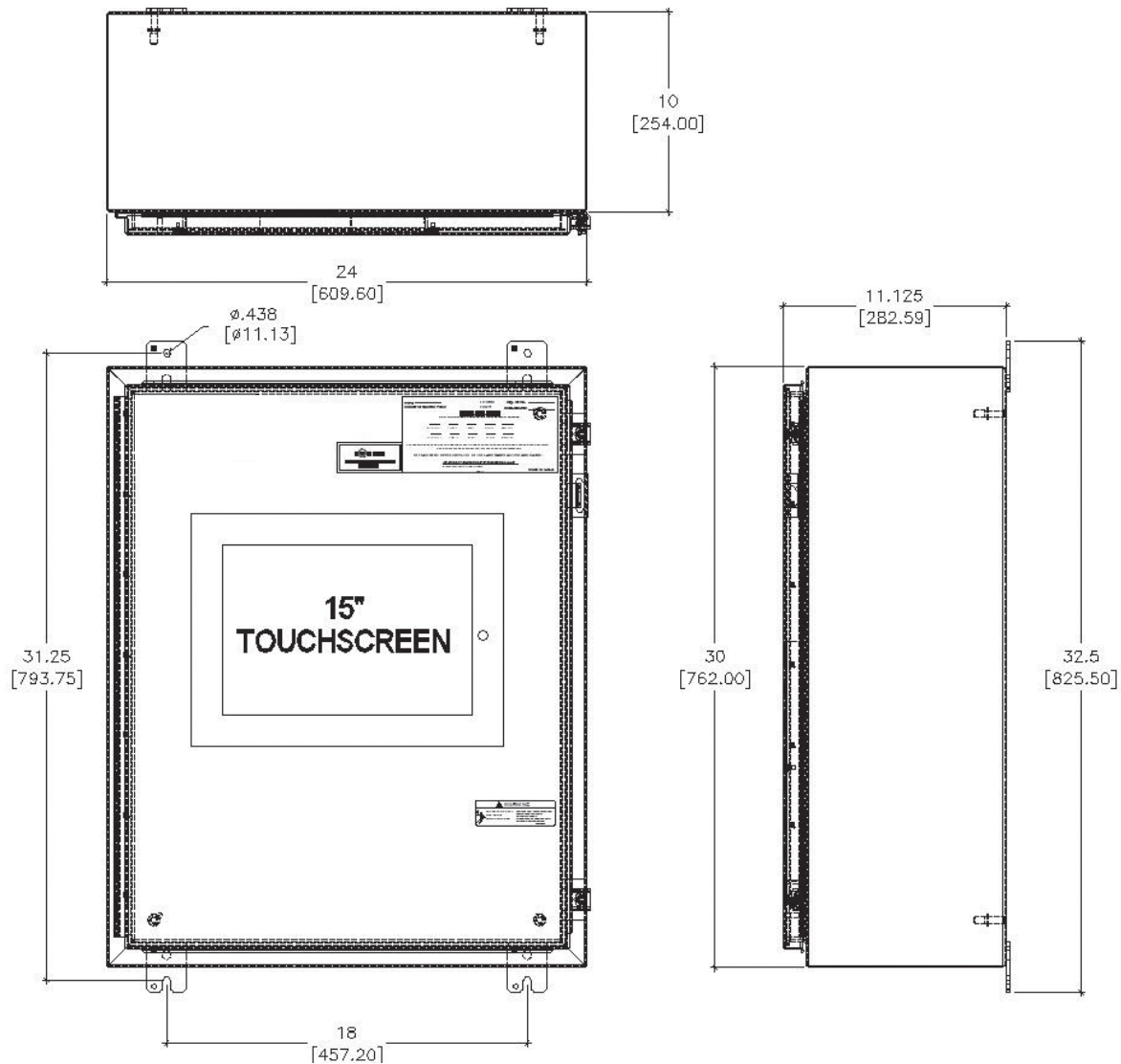


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Specifications

Generator Sets Supported	
Cat Engine-Generators	C9 ACERT™ - C32 ACERT, C175, 3500
System Capacity	2-4 Generator Sets
Voltage and Frequency	208V - 15kV, 50/60Hz
System Control Voltage	
Control Relay Ratings	10A @ 110 VDC, 4A @ 225 VDC resistive
Control Voltage Nominal	24 VDC
Maximum Control Voltage Range	10-36 VDC
SCADA Interface	
Modbus RTU (RS 485) 2-wire	Standard feature
Modbus TCP (Ethernet)	Optional feature
Environmental Parameters	
Certifications	UL 508A/cUL, CSA, OSP-0165-10
Vibration and Shock	SDS(g) = 2.77, z/h = 1.0, Ip = 1.5
Humidity	10%-90% non-condensing humidity
Operating Temperature	0°C to 50°C
Storage Temperature	-10°C to +60°C
Control Panel Enclosure	NEMA 12 Type (IP52)
Enclosure Dimensions & Weights	
	30H x 24W x 11.125 inches, 74 lbs. wall mount

Dimensions



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