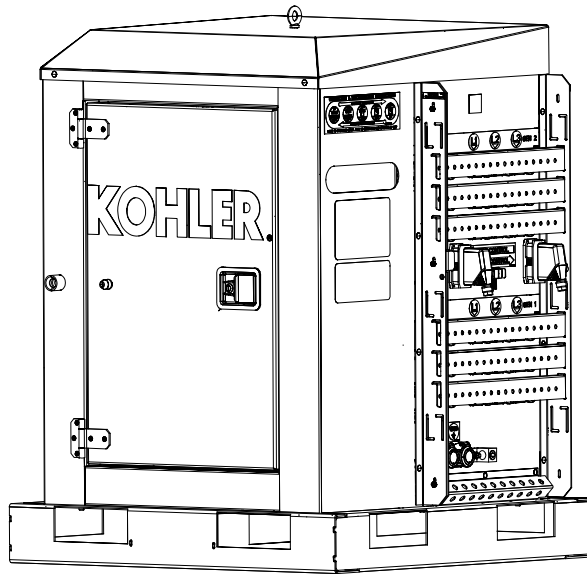


9001
KOHLER
POWER SYSTEMS
NATIONALLY REGISTERED



Applicable Models

- Kohler® Model REOZT4 and REZGT mobile generator sets equipped with the Decision-Maker® 3500 controller, voltage selector switch, camlock connectors, and control cable connection point
- Paralleled generator sets must have the same voltage configuration and number of phases (all single-phase or all three-phase).
- Paralleled generator sets can be different kW models.
- Paralleled generator sets can use different fuels (diesel and/or gas).
- Parallel up to 1000 amps per generator set.

Description

The Mobile Paralleling Box allows connection of two Kohler® Mobile generator sets to one distribution bus. The paralleling box provides contactors to connect to and disconnect from the bus, eliminating the need for motorized breakers for each generator set.

Up to four paralleling boxes and eight generator sets can be connected to one distribution bus.

The paralleling box is not intended for permanent stationary use.

Paralleling Benefits

Redundancy: Additional units are used to provide redundancy to the primary generator set to support critical loads.

- Redundant generator sets can be running and sharing the load. If one generator set fails, the remaining generator sets pick up the load.
- Redundant generator sets can be off. Failure of the running generator set(s) sends a start signal to the redundant generator set(s).

Capacity: Multiple generator sets are used when one generator set cannot meet system capacity, allowing flexible fleet management with available equipment.

Generator Management: Sequences generator sets on/off based on fuel, runtime hours, or a predetermined order based on preset system kW output. Cycling multiple smaller units on and off as needed can minimize wear and tear, fuel consumption, pollutant/sound emissions, and generated heat.

Standard Features

- Water-resistant enclosure designed and tested to NEMA type 3R enclosure specifications for outdoor use
- Forklift pockets and single point lifting eye for easy job-site placement
- Indicator lights to show that generator set is connected to bus
- Color coded camlock connectors for input and output feeds
- Lockable security bars for unused input and output camlock connectors
- Cable strain-relief tie-down points
- Lockable storage compartment with rack for control harnesses
- Ground lug
- Removable neutral/ground bonding bus for application flexibility
- Two 25-foot long control harnesses supplied with each paralleling box

Paralleling Box Specifications

Paralleling Box Specifications	
Source Input Voltage Range	120-600 VAC
Load Output voltage Range	120-600 VAC
Source Current Limit	1000 amps each (max.) *
	2000 amps total (max.) *
Output Bus Sensing	120-600 VAC (fused)
Contactor Coil	208-240 VAC 1200 W max.
Control Harness Length †	7.6 m (25 ft.)
* Derate 5% per 10°C (18°F) above 40°C (104°F).	
† Two (2) control harnesses are factory-supplied with each box.	

Environmental Specifications	
Operating Temperature	-5 to 45°C (23 to 113°F)
Storage Temperature	-40 to 70°C (-40 to 158°F)
Humidity	5% to 95%

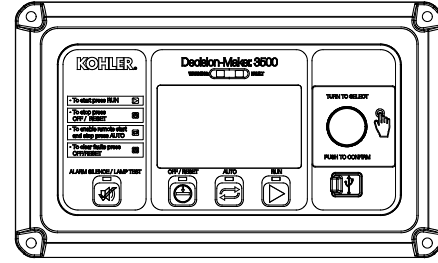
Weight and Dimensions	
Weight, kg (lbs.)	408 kg (900 lb.)
Dimensions, L x W x H mm (in.)	1067 x 1067 x 1431 (42.0 x 42.0 x 56.3)

Specifications for Customer-Supplied Cables

Cable Specifications (customer-supplied)	
Ground Lug Cable	(1) #4-600 or (2) 1/0-250
PGEN Cable (for multiple paralleling boxes)	Belden #9841 or equivalent shielded twisted-pair communication cable
Camlock Power Cables	2/0 to 4/0, Type W (see Installation Instructions)

Camlock Connector Specifications (customer-supplied)		
	Source Side (Generator Input)	Load Side (Output)
Plug Rating	400 A, 600 VAC	400 A, 600 VAC
Black	HBL400FBK	HBL400MBK
White	HBL400FW	HBL400MW
Red	HBL400FR	HBL400MR
Blue	HBL400FBL	HBL400MBL
Green	HBL400FGN	HBL400MGN

Decision-Maker® 3500 Controller Features



Paralleling logic is incorporated in the Decision-Maker® 3500 controllers installed on the generator sets.

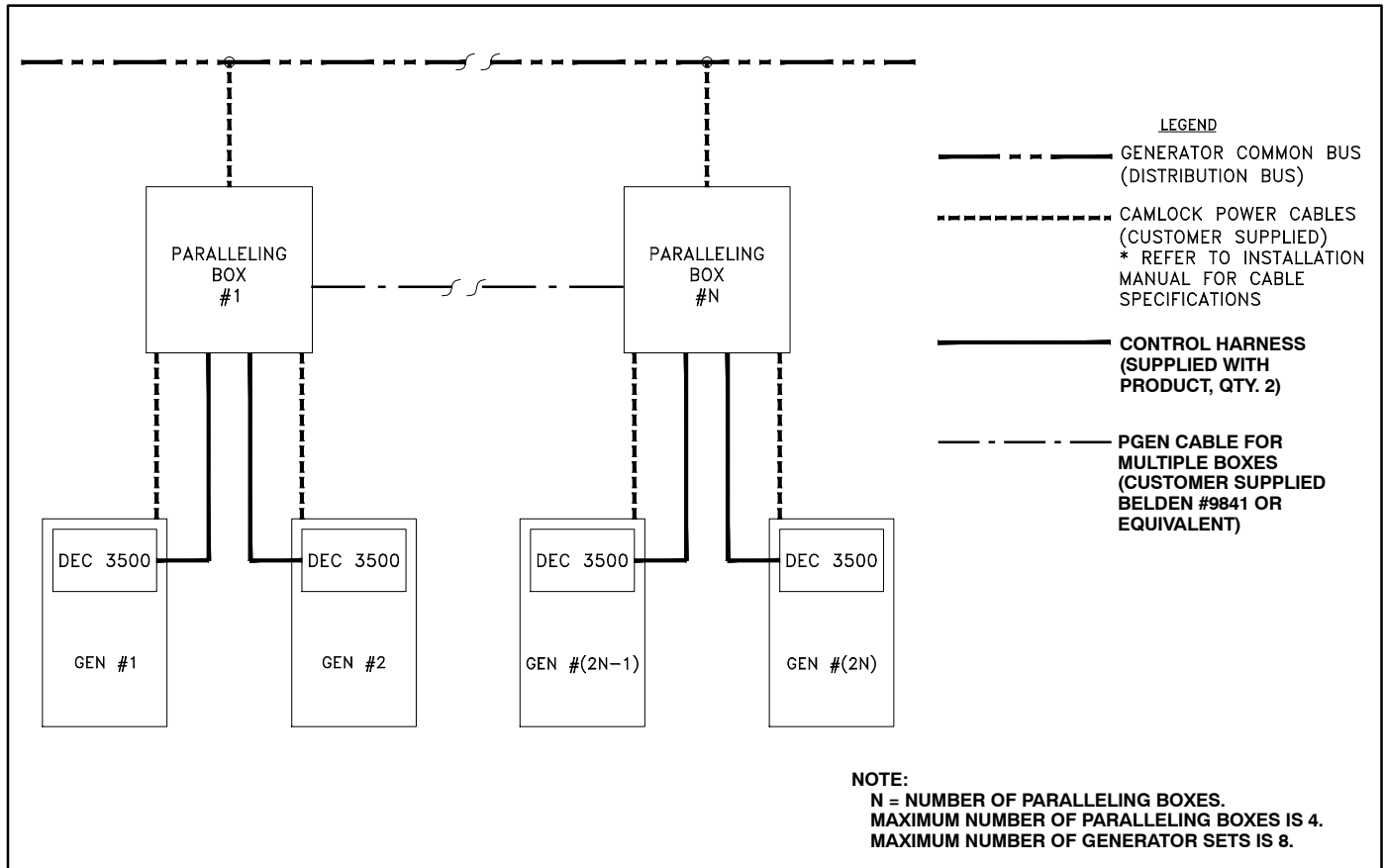
Provides advanced control, system monitoring, and system diagnostics for optimum performance and compatibility. The Decision-Maker® 3500 controller uses a patented hybrid voltage regulator and unique software logic to manage alternator thermal overload protection features normally requiring additional hardware.

Paralleling Functions:

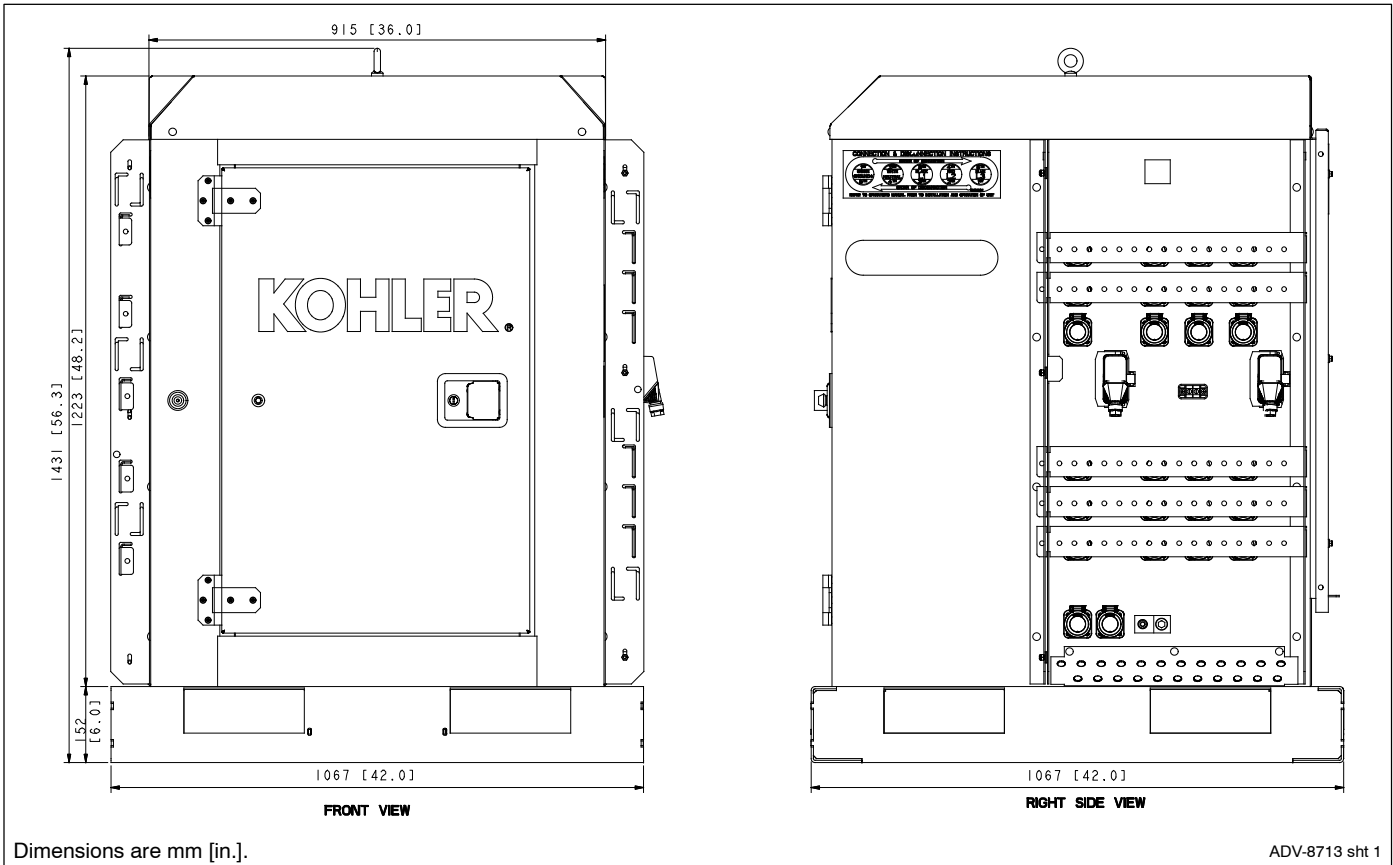
- 3-phase bus sensing for synchronization checking
- Random first-on logic
- Auto synchronizer
- Isochronous load sharing, communication-based
- External paralleling control
 - Speed bias
 - Voltage bias
- Integrated protective relays
- Generator management
 - Manual
 - Runtime
 - Fuel level
- Load management
- Configuration verification
 - Voltage
 - Frequency
 - Phase configuration

See the specification sheets for the paralleled generator sets for more information.

System Interconnection Diagram



Dimensions



Available Options

- Additional control harnesses

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