KOHLER

Residential/Light Commercial Generator Accessories

PowerSync® Automatic Paralleling Module (APM)

PowerSync® Standard Features

- Simple installation and advanced controls that make the system easy to use
- User interface red and green LEDs indicate:
  - Power to the building
  - Utility source status and connection
  - Generator sets 1 and 2 status, synching, and connection
  - Generator set fault, failure to start
- NEMA 3R aluminum enclosure for indoor or outdoor installation
- OnCue® Plus Generator Management System (activation codes for two generator sets are included with the APM.)
- UL listed

Applicable Models

- Two single-phase Model 14RESA/14RCA generator sets with the same 110/220, 115/230, 120/240, 220, 230, or 240 voltage configuration (with RDC2 controller only)
- Two single-phase Model 20RESA/B/C/D/20RCA generator sets with the same110/220, 115/230, 120/240, 220, 230, or 240 voltage configuration (with RDC2 controller only)

Automatic Paralleling

- Parallel two Kohler® single-phase residential generator sets to reduce fuel consumption, provide redundant operation, and extend the life of the generator sets.
- Automatic paralleling requires:
  - Two Model 14RESA/14RCA or two Model 20RESA/B/C/D/20RCA single-phase generator sets (must have the same 110/220, 115/230, 120/240, 220, 230, or 240 volt configuration)
  - One Kohler® PowerSync® Automatic Paralleling Module (APM)
  - One Model RXT automatic transfer switch (ATS)
  - A Kohler® Load Shed Kit or other load management system is required if the total load is larger than the maximum load for one generator set.
  - A personal computer with Kohler® SiteTech™ software is required for setup at the time of installation. SiteTech software is available to Kohler-authorized distributors and dealers.

Generator Management

- Generator management runs one generator set when power requirements are low, and automatically starts, synchronizes, and connects the second generator set when the load increases.
- Provides redundancy: If one generator set requires service or even fails, the other generator set is still available to provide power to your critical electronics.
- Longer generator life: Smart generator management automatically operates the generator with the lowest operating hours first, splitting the run time evenly between the two generator sets and extending the life of both units.
- Allows operation of one generator set on natural gas and the other on LPG, if desired.
- Setting the exercise time and date on one generator set schedules both generator sets to exercise at the same time.
- Customer override allows maintenance or service to one generator set while the other continues to run.

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KOHLERPower.com

Generator Performance

Each generator set can carry full rated load when operating in the paralleled system. Refer to the generator set specification sheet for generator set ratings and specifications.

14RESA, 14RCA, 20RESA, 20RESB, 20RESC, 20RESD or 20RCA	Paralleled Generator Performance
Voltage	±1.0% G2 transient
Frequency	±0.5% G2 transient
Fuels	Natural Gas and/or LPG *

* Use the same fuel for both generator sets, or use natural gas on one generator set and LPG on the other.

APM Specifications

APM Specifications	
Operation Temperature	-20 to 70° C (-4 to 178° F)
Storage Temperature	-40 to 70° C (-40 to 178° F)
Humidity	95% non-condensing
Number of cycles at full load	200

Optional Circuit Breaker Kits

A circuit breaker kit may be required if the PowerSync® APM is not located in the line of sight from the generator set. Check your local code requirements.

Kits include two circuit breakers with leads and mounting brackets for installation inside the APM enclosure.

Generator Set Model	Circuit Breaker Rating
14RESA, 14RCA	70 Amps, qty. 2
20RESA, 20RESB, 20RESC, 20RESD, 20RCA	100 Amps, qty. 2

Accessories

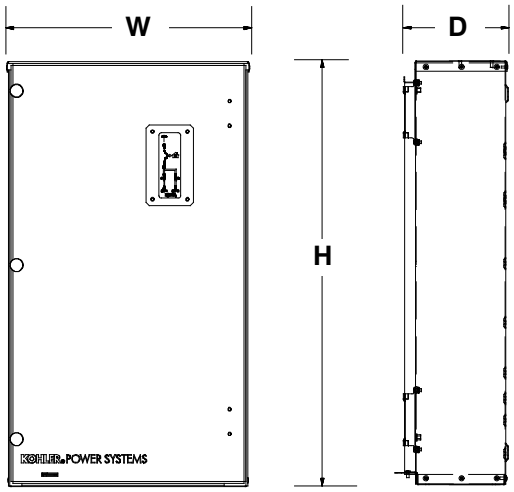
- ❑ Circuit breaker kit for 14RESA, 14RCA
- ❑ Circuit breaker kit for 20RESA, 20RESB, 20RESC, 20RESD or 20RCA
- ❑ Model RXT automatic transfer switch, required
- ❑ Load shed kit for RDT or RXT transfer switch†
- ❑ RXT combined interface/load management board†
- ❑ Relay modules (use 1-4 modules with the load shed kit or RXT combined interface/load management board)
- ❑ Programmable Interface Module (PIM)

† A load shed kit or an RXT combined interface/load management board is required if the total load is larger than the maximum load for one generator set.

Weights and Dimensions

Shipping Weight (without optional circuit breakers) 17 kg (38 lbs.)

Dimensions:
H x W x D mm (in.) 828 x 466 x 207 (32.6 x 18.3 x 8.2)



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