# Residential/Light Commercial Generator Accessories

## KOHLER. Power Systems

**ISO 9001**
KOHLER
POWER SYSTEMS
NATIONALLY REGISTERED

## Applicable Models

- Two Model 14RESA single-phase generator sets (with Kohler® RDC2 controller only)

- Two Model 20RESA single-phase generator sets (with Kohler® 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 or two Model 20RESA single-phase generator sets (must be identical models with Kohler® RDC2 controller)

  ○ One Kohler® PowerSync® Automatic Paralleling Module (APM)

  ○ One Model RXT automatic transfer switch (ATS)

  ○ A Kohler® Load Control Module (LCM), 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.

## 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® Generator Management System (activation codes for two generator sets are included with the APM.) See OnCue specification sheet G6-116.

- UL listed

## 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.

## Generator Performance

Each generator set can carry full rated load when operating in the paralleled system. Refer to generator set specification sheet G4-209 for generator set ratings and specifications.

| 14RESA or 20RESA | Paralleled Generator Performance |
|---|---|
| Voltage | ± 1.0%<br>G2 transient |
| Frequency | ± 0.5%<br>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<br>(–4 to 178° F) |
| Storage Temperature | –40 to 70° C<br>(–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.

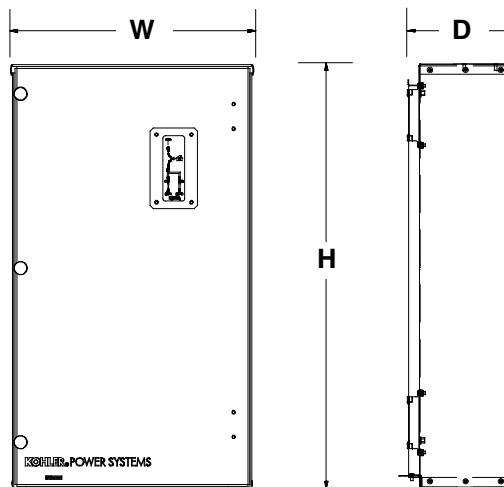| Generator Set Model | Circuit Breaker Rating |
|---|---|
| 14RESA | 70 Amps, qty. 2 |
| 20RESA | 100 Amps, qty. 2 |

## Accessories

- ❏ Circuit breaker kit, 14RESA
- ❏ Circuit breaker kit, 20RESA
- ❏ Load Control Module (LCM) or Load Shed kit, recommended (see specification sheets G6-120 and G11–124)
- ❏ Model RXT automatic transfer switch, required (see specification sheet G11–121)
- ❏ Programmable Interface Module (PIM) (see specification sheet G6-121)

## 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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