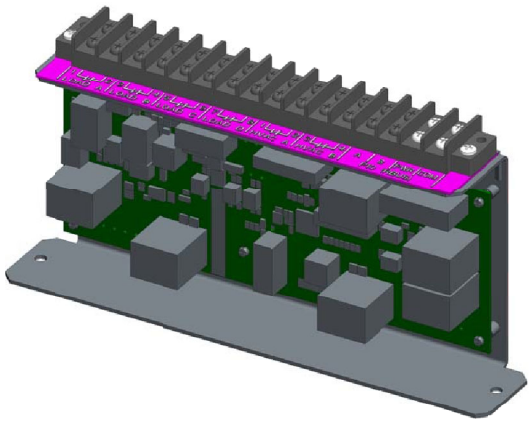
Load Shed Kit



Load Shed Assembly

Applicable Models

- RXT Automatic Transfer Switch (without load center)
- RDT Automatic Transfer Switch (without load center)
- RDT 200 amp service entrance rated transfer switch with 42-circuit load center
- A Kohler® single-phase generator set equipped with the RDC2 or DC2 controller is required.

Standard Features

- Automatically manages up to six residential loads:
  - Four customer-provided normally closed power relays can be connected for management of non-essential secondary loads. Kohler® Power Relay Modules are recommended.
  - Two HVAC relays to control two independent air conditioner loads are included.
- Ships with a 400 Amp current transformer.
- An optional 400amp current transformer with a larger inner diameter is available for large cables.
- Order the 500 amp current transformer when used with a Model 60RCL generator set.
- The load shed kit mounts inside the enclosure on Kohler® Model RXT and RDT automatic transfer switches.

Load Management

- The load shed kit disconnects non-critical loads to prevent generator overload, in compliance with NEC 2008.
- The load shed kit monitors generator current and frequency to determine when to shed loads. This monitoring prevents frequency drops that can damage valuable electronics like computers and televisions.
- Load management with the load shed kit allows the use of a smaller generator set.

Priority Setting

- Loads are added and shed according to their priority. Load 1 is the top priority, which is added first and shed last. Load 6 is the lowest priority.
- Less critical loads can be turned off automatically when essential appliances are running.
- Load priorities are hard-wired at installation.

Optional Power Relay Modules

- 50 amp DPST normally closed power relay mounted in a NEMA type 3R enclosure
- Use up to four power relay modules with the load shed kit
- UL/cUL listed
- Dimensions: 172 x 233 x 92 mm (6.8 x 9.2 x 3.6 in.)
- For more information, see specification sheet G6-143

KOHLER Generators

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Operation

- Loads are automatically added or disconnected based on generator capacity.
- The Kohler-patented load control system uses dynamic logic to prevent shedding important loads unnecessarily when air conditioning, refrigerator, or water pump motors start.
- The load shed kit and generator communicate to provide smart power management. The time to shed loads decreases as each load is shed to quickly adapt to critical power requirements.
- Load shed power level and frequency setpoint adjustments are possible only by using Kohler® SiteTech™ software, available to Kohler-authorized distributors and dealers.

Load Monitoring with OnCue® Plus

- Using Kohler's OnCue® Plus Generator Management System (sold separately), the customer can view load status (On or Off) for loads connected to the Load Shed Kit.
- The Load Shed Kit outputs can be labeled in OnCue® Plus.

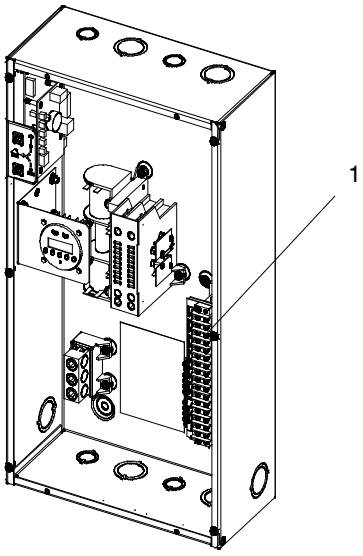
Specifications

Connection	Rating	Connection
Pilot Relays* and HVAC Relays (qty. 2)	125VAC, 10 A (general purpose) 120VAC, 125VA (pilot duty)	Connect to #6 screw on terminal block
RBUS Communication and Power Connections to the RDC2/DC2 controller	0.5 A @ 12 VDC	Use Belden #9402 or equivalent 20 AWG shielded, twisted-pair communications cable †

* Four (4) pilot relays are provided for customer-supplied load-switching contactors/relays. Customer-supplied relays must be normally closed, max. 50 amps. Kohler Power Relay Modules are recommended.

† For long distances, use an equivalent shielded, twisted pair cable for RBUS connections and individual 12-20 AWG wires (qty. 2) for power connections. A communication harness for the Model RXT transfer switch is included with the load shed kit. See TT-1609, Load Shed Kit Installation Instructions, for details.

Location Inside ATS Enclosure



1. Typical location of load shed kit. Location varies with transfer switch model. (cover removed for illustration)

Current Transformer

The load shed kit includes a current transfomer (CT) for load monitoring. If the application requires cables that are too large for the inner diameter (I.D.) of the CT provided, or you need a 500 Amp CT for use with a 60RCL generator, please see table below for optional sales kit part numbers.

Current Transformer Information

	Sales Kit Part Number	Service Part Number	Ratio (Amps:VAC)	Outer Diameter mm (in.)	Inner Diameter mm (in.)
Included with Kit	N/A	GM83929	400:3	63.5 (2.5)	28.7 (1.13)
Sold Separately	GM17250-KP1-QS	GM17250	400:3	111.8 (4.4)	57.2 (2.25)
Sold Separately	GM17250-KP2-QS	GM60264	500:3	171.5 (6.75)	108.0 (4.25)

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