

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

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.

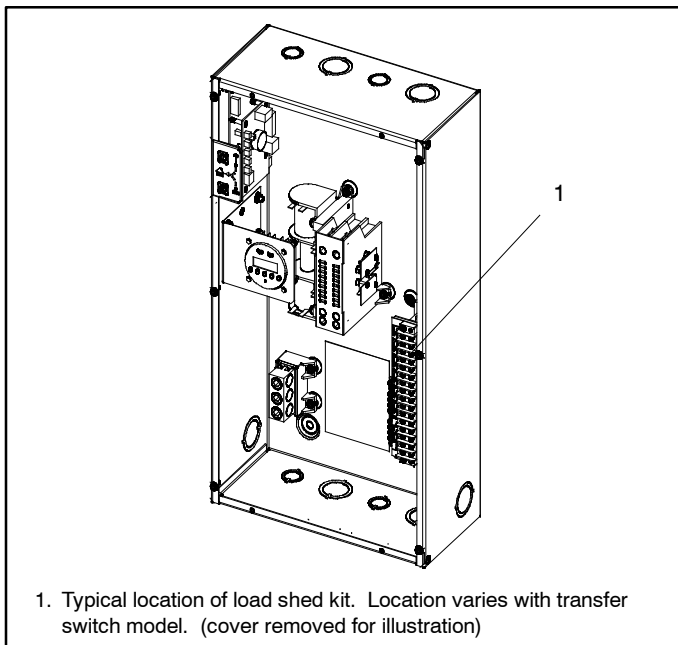
Specifications

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



Current Transformer

The load shed kit includes a current transformer (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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