## **10KW-15KW LOAD BANK**

## SWIFT-E SWIFT-E+









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For the most up-to-date information for this product and others, please contact Simplex, Inc. at 1-217-483-1600 (Springfield, Il.) or 1-678-214-6575 (Atlanta, Ga.) or visit us on the web at <u>http://www.simplexdirect.com</u>.



# **1.0 WARNINGS AND CAUTIONS**

Four commonly used safety symbols accompany the DANGER, WARNING, and CAUTION blocks. The type of information each indicates is as follows:

This General warning symbol points out important safety information that, if not followed, could endanger personal safety and/or property of others.



This Explosion warning symbol points out potential explosion hazard(s).



This Fire warning symbol points out potential fire hazard(s).



This Electrical warning symbol points out potential electrical shock hazard(s).



Improper operation of this equipment such as neglecting its maintenance or being careless can cause possible injury or death. Permit only responsible and capable persons to install, operate, and/or maintain this equipment.



Potentially lethal voltages and amperages are present in these machines. Ensure all steps are taken to render the machine safe before attempting to work on the equipment.



- All hardware covered by this manual have dangerous electrical voltages and can cause fatal electrical shock. Avoid contact with bare wires, terminals, connections, etc., on the hardware, if applicable. Ensure all appropriate covers, guards, grounds, and barriers are in place before operating the equipment. If work must be done around an operating unit, stand on an insulated dry surface to reduce shock hazard.
- Do not handle any kind of electrical device while standing in water, while barefoot, or while hands or feet are wet. DANGEROUS ELECTRICAL SHOCK MAY RESULT.
- If trained personnel must stand on metal or concrete while installing, servicing, adjusting, or repairing this equipment, place insulative mats over a dry wooden platform. Work on the equipment only while standing on such insulative mats.
- The National Electrical Code (NEC), Article 250 requires the frame of the equipment to be connected to an approved earth ground and/or grounding rods. This grounding will help prevent dangerous electrical shock that might be caused by a ground fault condition or by static electricity. Never disconnect the ground wire.
- Wire gauge sizes of electrical wiring, cables, and cord sets must be adequate to handle the maximum electrical current (ampacity) to which they will be subjected.
- Before installing or servicing this (and related) equipment, make sure that all power voltage supplies are completely turned off at their source. Failure to do so will result



in hazardous and possibly fatal electrical shock.

- In case of accident caused by electric shock, immediately shut down the source of electrical power. If this is not possible, attempt to free the victim from the live conductor. AVOID DIRECT CONTACT WITH THE VICTIM. Use a nonconducting implement, such as a dry rope or board, to free the victim from the live conductor. If the victim is unconscious, apply first aid and seek immediate medical attention.
- Never wear jewelry when working on this equipment. Jewelry can conduct electricity resulting in electric shock or may get caught in moving components causing injury.



• Keep a fire extinguisher near the hardware at all times. Do NOT use any carbon tetra-chloride type extinguisher. Its fumes are toxic, and the liquid can deteriorate wiring insulation. Keep the extinguisher properly charged and be familiar with its use. If there are any questions pertaining to fire extinguishers, please consult the local fire department.



• The illustrations in this manual are examples only and may differ from your load bank.



# **2.0 NAMEPLATES AND PLACARDS**

#### 2.1 Introduction

This section will provide copies of the nameplates and placards for the Swift-E and Swift-E+ Load Bank in the event that the current nameplates and placards become unreadable.

#### 2.2 Instruction Placards





# **3.0 DESCRIPTION AND SPECIFICATION**

#### 3.1 Introduction

This section will provide a brief synopsis of the use of the Simplex Swift-E Portable Load Bank. Simplex, Inc. reserves the right to change this synopsis, and this section should only serve as a brief concept of the device.

In this section, you will find:

- An overview of normal usage of the Simplex Swift-E Portable Load Bank.
- An overview of hardware capabilities.
- An overview of safety functions.

#### 3.2 Overview of Use

The Simplex Swift-E Portable Load Bank allows quick and easy testing of small generators. The fully self-contained, lightweight and hand-transportable load bank can be used to test and maintain AC generators, AC rectifiers, inverters, power supplies, RV generators, and other AC sources.

The load bank is available as the standard 10KW Swift-E unit and the 15KW Swift-E+ unit.

The Swift-E and Swift-E+ Load Banks contain specially designed power resistors, high temperature silicone insulated power wiring, industrial toggle switches, high-interrupting capacity fuses, and load connection cables. All control and cooling circuits operate from the source under test. The Swift-E and Swift-E+ Load Banks are completely self-contained and portable, rugged test instruments. Complete test instrumentation and connection cables are provided.

For a parts legend, please See "8.2 General Maintenance" on page 18. Always consult the parts legend drawing or "9.0 Ordering Information" on page 22 when ordering parts for a Swift-E or Swift-E+ Load Bank. The referenced illustration is for example only and shouldn't be used for diagnostic purposes.

#### 3.3 Features

In interest of safety, the Swift-E unit includes sealed tubular-type load elements that are made up of nickel-chromium resistance wire, which is sealed in incoloy sheath (nickel alloy). In order to reduce the hazard of electrical shock and short circuiting of elements, the element has a nonconductive exterior. The element is also rustproof, vibration proof, and shock proof.

Using the panel-mounted toggle switches for each load step as well as master load control, the load bank performs precise load control. For master load control as well as block loading, the Swift-E Load Bank contains main contactors for full control. In the interest of preventing overload and short circuit protection, the load bank has a main circuit breaker.

With a connection cable set of 10' with ring lug terminations, the load bank is also encased in a NEMA, type 1 enclosure of aluminum construction with exterior powder coating. In addition, the enclosure has protective rubber feet, handles for carrying, and cable wrap for neat storage.



#### 3.4 Safety

To prevent a situation where the temperature is too high and damages the hardware or presents a dangerous scenario for operators, the Swift-E and Swift-E+ have an over-temperature sensor to trip the main contactor and activate the alarm indicator. Should the connection of the load bank be incorrectly installed, an over-voltage sensor is in place that will also trip the main contactor and activate the previously mentioned alarm indicator.

### 3.5 Specifications

#### AC Ratings:

Model	Ratings	Description
Swift-E	10KW	120/240V, Single-Phase, 250W Step Resolution
Swift-E+	15KW	120/240V, Single-Phase, 250W Step Resolution

Table 1



# **Did You Know?**

Simplex was founded in 1938 in Burlington, Iowa by Michael Debrey, a Hungarian immigrant. A self-taught inventor, Debrey introduced multiple innovations to the electrical engineering field, including the Automatic Voltage Regulator. Simplex was moved to East Moline, Illinois, where it remained until 1951, when the company relocated to Springfield, Illinois.



# 4.0 UNPACKING

#### 4.1 Introduction

This section will detail the procedure to unpack the Swift-E Load Bank. This guide will include preparation for setting up the equipment for proper use.

In this section, you will find:

- A list of included components and parts.
- An inspection list.

#### 4.2 Included Components and Parts

The following items are included with your Swift-E or Swift-E+ Load Bank. If the following is not included, please contact your Simplex representative or call Simplex Direct, Inc., at 217-483-1600.

- Manual
- Swift-E Load Bank

### 4.3 Primary Inspection

Preventative visual inspection of the shipping crate and the Load Bank is advised. Physical or electrical problems due to handling and vibration may occur. Never apply power to a load bank before performing this procedure. The following five-point inspection is recommended before installation and as part of the 50-hour / 6-month maintenance schedule or as a Load Bank is relocated:

- 1. If the crate shows any signs of damage, examine the load bank in the corresponding areas for signs of initial problems.
- 2. Check the entire outside of the cabinet for any visual damage, which could cause internal electrical or mechanical problems due to reduced clearance.
- 3. Inspect all relays and control modules. Make sure all components are secure in their bases and safety bails are in place. Spot check electrical connections for tightness. If any loose connections are found, inspect and tighten all remaining connections.
- 4. Examine all accessible internal electrical components such as fuses, contactors, and relays. Check lugged wires at these components.
- 5. Visually inspect element chamber for foreign objects, broken ceramic insulators, and mechanical damage.

If any problems are observed during Primary Inspection, call the Simplex Service Manager at 217-483-1600 (24hrs), ext. 110.



# 5.0 INSTALLATION

#### 5.1 Introduction

When using the Swift-E Load Bank, location is imperative in order to prevent damage to the load bank as well as safeguard against any injury.

In this section, you will find:

— How to choose the load bank's location.

#### 5.2 Load Bank Placement

Before beginning operation with the Swift-E load bank, placement of the load bank is

important to observe for the sake of the operators' safety as well as maintaining the integrity of the load bank. The load bank requires a 2-foot clearance of the exhaust for the sake of safety (see Figure 1).

Using this section, connect the load bank with the testing source with the load cables or connection studs. The fan, pow-



It is important to properly balance the phase legs used to power multiple load banks. Always have the load bank installed by trained personnel ONLY. Failure to properly install the unit may result in substantial damage to or the destruction of the load bank and adjacent equipment.

er, and load of the unit will originate from the same source.

The load bank elements are cooled by two 240 CFM fans, and the unit operator must make allowances for the warm load bank exhaust air. The fan and control system are energized when the fan/control power is placed in the "On" position. The load steps are energized manually with the load step switches.



#### Figure 1

In the interest of safety, please pay attention to the following warnings related to load bank placement.





#### Note: Load Bank warranty is void if incorrectly cooled.

**High Voltage**: Turn off and disconnect power source before opening this compartment. **High Temperature**: Allow equipment to cool before servicing or opening this compartment.

**Rotating Equipment**: Ensure that fan(s) has stopped before opening this compartment.

For Operator Safety: Make sure this equipment is properly grounded when in use.

All compression type connections on fuse blocks, load blocks, and contactors where used, should be checked for tightness frequently. This check should be established as part of routine maintenance.

During operation, hot exhaust air must exit from the "top" of the load bank (see Figure 1). If not, shut down the load bank immediately. Correct the problem before applying power to the load bank.

This load bank is high-powered, technical, industrial equipment operating at dangerous voltages and temperatures. It is capable of damage to itself or property or personnel if improperly used. It is not a consumer product.

It must be installed, connected and operated by personnel properly trained and experienced in its use. An operator's manual is supplied with each load bank or available Online at http://www.simplexdirect.com.

It is imperative that the operator be familiar with its contents and has access to it during operation.

The following cautions should be observed before and during operation:

- 1. Check intake and exhaust screens as well as fan and load elements for foreign objects.
- 2. Position and install load bank with great consideration given to large cubic airflow requirements, exhaust temperature and velocity. Therefore, do not point exhaust at any nearby surface or object, which may be adversely affected by high temperature. This includes but is not limited to painted surfaces, tarpaper and asphalt roofs, water sprinkler heads, fire alarms, and volatile material.

Do not use in confined spaces without due regard for an adequate supply of intake air and provision for exit of high temperature exhaust. Do not permit vertical airflow unit with wheels to sink into soft surfaces thereby cutting off bottom air intake. Be concerned with possibility that the load bank may have to compete with cooling air requirements of a nearby running engine generator set where cooling air intake to a confined space may not be adequate for both engine and load bank. Be especially careful not to bounce hot exhaust air off nearby obstructions for re-circulation through the load bank.

- 3. Verify that all control switch positions are correct for intended usage before making connection.
- 4. The load cables carry high amperage. Be constantly aware of possibility of inductively heating adjacent ferrous objects to temperatures sufficient to damage



cable insulation.

- 5. Always connect safety ground cable to a proper ground. Do not rely on a possible grounded neutral somewhere else in the system.
- 6. Do not let equipment operate unattended for long periods of time.
- 7. Do not store or operate in rain adequate protection is provided.
- 8. Routinely inspect all components and electrical connections for tightness and integrity.
- 9. Repair any damaged or degraded components and wiring without delay.

If technical assistance, service or parts are needed, please call 800-837-8603 (24 Hours).

#### 5.3 Wiring Connections

Using the connection chart found on the Swift-E and Swift-E+ Load Banks nameplates (Figure 2), wire the load bank to the desired source for testing.

#### **GENERATOR CONNECTIONS**





120V, 1-PHASE

240V, 1-PHASE

WARNING: FOR OPERATOR SAFETY MAKE SURE THIS EQUIPMENT IS PROPERLY GROUNDED WHEN IN USE.

Figure 2



# **6.0 OPERATING INSTRUCTIONS**

#### 6.1 Introduction

Because the Swift-E and Swift-E+ Load Bank was designed with simplicity in mind, the hardware is easy to maintain and use.

The Swift-E and Swift-E+ Load Banks have discrete load steps to increase the applied load as desired.

In this section, you will find:

- How to properly handle the unit.
- How to start the load bank.
- How to apply a load using the equipment.

#### 6.2 Basic Operations

Prior to operating the Swift-E Load Bank, ensure that the unit is wired properly based on the instructions from "5.2 Load Bank Placement" on page 11 as well as "2.2 Instruction Placards" on page 6 for the placard with wiring directions.

#### 6.2.1 Startup

- When wired appropriately, the unit is ready to apply a load to a test source. To perform this task, using the toggle switch, select the input value in the Meter Range section of the Swift-E and Swift-E+ nameplate. The values are either 120V or 240V.
- Flip the toggle switch to "On" for the Fan/Control selection. If the system is operating properly, you will hear the fans start and the Datakom monitoring pan-

el will illuminate.

## 6.2.2 Applying a Load

 Flip the toggle switch under "Master" to "On." This will allow the user to begin applying load to the

source as each load step is activated.

- 2. Activate each load step by powering the desired watts to "On." This step, if done while the "Master" switch is activated, will apply the load instantly. For example, while the "Master" switch is activated, powering 250W then 500W will apply 250W to the load with 500W being added for a total of 750W.
- 3. Using the digital meter (Figure 3), you can monitor the voltage, amps, and frequency (Hz) of the load.

Note: If you wish to have the entire load applied at once, rather than in sequential steps, set those load steps first, then activate the "Master" switch.



Figure 3

Note: The load bank meter will start displaying values at 6A.



#### 6.2.3 Shutdown

- 1. When your operation has completed, switch the "Master" and other load toggle switches to "Off." This will remove the load from the unit.
- 2. Flip the toggle switch for the "Fan/Control" selection to "Off."
- 3. The unit is now off.

Note: It is advised to have all the switches in the off position before operation of the load bank as well as after use. Note: It is advised to allow the unit to run without a load for about 30 seconds to allow the system to cool down.



# 7.0 ALARMS AND WARNINGS

#### 7.1 Introduction

With its simple design in the interest of efficiency, The Swift-E Load Bank has few areas for failure. In the unlikely event that an issue arises, you will find how to address these issues in this section.

In this section, you will learn:

— Common alarms and warnings and how to address them.

## 7.2 Explanation of Failure

If the load bank exhaust air exceeds the set point (175° F) of the exhaust temperature

switch (EXTS), a cooling failure is initiated. The Swift-E and Swift-E+ Load Banks control circuitry de-energizes the load steps during a cooling failure. Cooling failure relay contacts in series with the cooling failure lamp close, and the lamp is illuminated.

Note: It is important to investigate all cooling failures. Unresolved cooling issues can cause serious issues later in the load bank's life cycle.

## 7.3 Resolution for a Failure

If the over temperature alarm is triggered, the

Swift-E Load Bank should be reset by power cycling the unit—powering completely down then powering it back on. The unit should be off for a couple of seconds. Before restarting the unit, check for the cause of failure. This step is imperative for the safety of the unit and load bank operators.

## 7.4 Circuit Breaker Trips

If the circuit breaker is tripped, remove the six (6) faceplate screws on the unit to access the circuit breaker.



# **Did You Know?**

Simplex Onsite has the only factory trained technicians for Simplex load banks and fuel systems. Simplex Onsite not only provides service for new and existing load banks and fuel systems but offers a full line of rental load banks, transformers and cables up to 15KV.

Simplex Onsite is a division of Simplex so unlike other load bank rental companies our load banks are designed specifically for Simplex Onsite Inc. We are not using multiple manufactures of load banks and equipment that is not designed for rental applications.



# **8.0 DIAGNOSTICS AND TROUBLESHOOTING**

#### 8.1 Introduction

Through good practice, cumulative issues can be prevented through basic maintenance. In the unlikely event that something goes wrong with your Simplex Load Bank, we will cover how to solve some of the more common problems. Finally, if the need arises, we will cover how to replace various parts for the Swift-E Load Bank.

In this section, you will learn:

- How to perform preventative maintenance on the load bank.
- Some of the common issues you may run into and how to troubleshoot these items independently.
- About the part names, the part numbers, and what each primary function is in the Swift-E(+) Load Banks.

#### 8.2 General Maintenance

All electrical connections should be tightened every 6 months. Cooling fan motors are permanently lubricated and do not require maintenance.



Always remove all power from the load bank and all fan/control power before servicing the load bank. Never operate or service a load bank that is not properly connected to an earth-ground.



If a failure occurs during load bank operation, the load bank will de-energize all load steps. The operator must reset the load bank by turning it "Off" then "On." The load failure must be investigated and corrected before load application can resume.





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Ref. Num.	Part Number	Description
1	15195030	Cable Exit, Strain Relief
2	24341000	Digital Power Meter
3	7BD215514	Handles, Cable Wrap
4		Meter Range Selector Switch
5	15303000	Rubber Feet
6	24251500	Over Heat Indicator Lamp
7	25303010	Master Load and Load Step Toggle Switches
8	25301000	Fan/Control Power Toggle Switch
9	14031000	Control Fuses 5A, 250V
10	14011000	Control Fuses 2A, 250V
11	54885650	Relay Bale
12	24885000	Relay Base Socket
13	24785300	Relay

Ref. Num.	Part Number	Description
14	50020220	Relay Base Bracket
15	25130000	Resistor
16	24892000	Din Rail, 1.75"LG
17	25678501	Terminal Strip End Barrier
18	25678502	Terminal Block End Plate
19	25678500	Terminal Block, 35A, 600V (X17)
20	24892000	Din Rail, 5.62" LG
21	24827035	Relay, General Purpose, 120VAC
22	24882100	Relay Base, 3-Pole, Screw Termination
23	12517000	Plate Mounting
24	12103025	Circuit Breaker
25	15401000	1.375" Isolator
26	13027042	Contact, 40A

Table 2

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# **Did You Know?**

Load banks simulate the "real world" loads that the power source will experience. Electrical load can be broadly classified as resistive, magnetic and capacitive. In the real world, these components are mixed, as they are with a load bank, except with the load bank, full control of the components is possible. The most common load bank and the load bank which is suitable for general load testing is the resistive load bank. A resistive load bank converts electrical energy to heat. Within the load bank, the load is divided into discrete circuits or "steps" capable of stepwise, controlled application. The load bank includes a means of cooling, most commonly forced air, but also water.



# 9.0 ORDERING INFORMATION

This section will serve as a guide to assist in the proper component selection for your Swift-E Portable Load Bank. The options below are for the standard models. For any custom orders or for any clarification or questions on the items, please contact your Simplex Inc. representative. When ordering, please attach your purchase order to this form and fax it to Simplex, Inc. at 217-483-1616 or call Simplex, Inc. at 217-483-1600.

#### 9.1 Swift-E or Swift-E+ (Circle Selection)

	Swift-E	OR	Swift-E+	
KW	10KW		15KW	
Capacity				
Voltage	single-ph	ase, 120V	or 240V	
Weight		45 lbs		
Dimensions	20"W x	17.75″H x	< 14"D	

#### 9.2 Duffel Bag

Duffel Bag:	YES	OR	NO
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#### 9.3 Non-Standard Options

(Note: Using the following items will require customized work and create a longer lead time as they are not on stock models.)

Add: CAM-LOK connectors	(YES OR NO)
Add: Nema Plugs	(YES OR NO)
Add: Clamps	(YES OR NO)

Customer Name: \_\_\_\_\_ P.O. #: \_\_\_\_\_ Fax to 217-483-1616



#### APPENDIX A — ABBREVIATIONS IN THIS MANUAL

Listed below are abbreviations of terms found for the Swift-E and the Swift-E+ Load Banks. When following a drawing, utilize this guide to define abbreviated system and component names. As this is a master list, drawings and text pertaining to your equipment may not contain all these terms.

⊥ - Ground
A - Amps; Amperage
CFM - Cubic Feet per Minute
F - Fahrenheit
Hz - Hertz; Frequency
KW - Kilowatts
V - Volts; Voltage
VAC - Voltage, Alternating Current
W - Watts; Wattage



#### APPENDIX B — TECHNICAL DATA

#### Swift-E Schematics













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APPENDIX C — IMPORTANT FORMULA

#### OHMS LAW:

OHMS = VOLTS / AMPS ( R = E / I) AMPS = VOLTS / OHMS (I = E / R)

VOLTS = AMPS / OHMS (E = IR)

#### <u>3 Phase</u>

Resistance =  $(V^2 X 2) / W$ 

208V	KW	1	5	10	20	25		40	5	0	100	200	250	400	500
	RES	86.5	17.3	8.6	4.3	3.	46	2.16	1.	73	0.865	0.432	0.346	0.276	0.173
	AMP	2.77	13.9	27.8	55.5	69	9.4	111	13	39	278	555	694	1110	1388
240V	KW	1	5	1(	) 2	0	25	40		50	100	200	250	400	500
	RES	115	23.	0 11	.5 5.	76	4.61	2.8	8	2.30	1.15	0.576	0.461	0.288	0.230
	AMP	2.41	12.	0 24	.0 48	3.0	60.0	96.	2	120	240	480	600	962	1200
380V	KW	1	5	10	) 2	0	25	40		50	100	200	250	400	500
	RES	289	57.7	7 28.	8 14	.4	11.5	7.2	2	5.77	2.88	1.44	1.15	0.722	0.577
	AMP	1.51	7.59	9 15.	2 30	.4	37.9	60.	7	75.9	152	304	380	608	760
480V	KW	1	5	10	) 2	0	25	40	)	50	100	200	250	400	500
	RES	460.8	3 92.	2 46	.1 23	8.0	18.4	11.	5	9.22	2 4.61	L 2.30	1.84	1.15	0.922
	AMP	1.20	6.0	1 12	.0 24	0.	30.0	48.	1	60.0	) 120	240	300	481	600

#### <u>1 Phase</u>

Resistance

$= V^2 / W$ Amperage $= W / V$											/ V	
	120V	KW	1	5	10	20	25	50	100	200	250	500
		RES	57.6	28.8	14.4	7.20	4.80	3.60	2.88	1.44	0.720	0.360
		AMP	2.08	4.16	8.33	16.7	25.0	33.3	41.7	83.3	167	333
	208V	КW	1	5	10	20	25	50	100	200	250	500
		RES	43.3	8.65	4.33	2.16	1.73	0.865	0.432	0.216	0.173	0.086
		AMP	4.80	24.0	48.1	96.1	120	240	481	962	1202	2404
	240V	KW	1	5	10	20	25	50	100	200	250	500
		RES	57.6	11.5	5.8	2.88	2.30	1.15	0.576	0.288	0.230	0.115
		AMP	4.16	20.8	41.6	83.3	104	208	417	833	1042	2083

KVA: 1 phase VOLTS X AMP	S
--------------------------	---

3 phase 1.732 X VOLTS X AMPS Derating KW:

 $KW(^{v_2}/_{v_1})^2$  = deated KW;

EX. 50KW  $({}^{200}/{}_{240})^2 = 34.722$ KW Derating KW and Hz: KW  $({}^{V2}/{}_{V1})^2$  X  $({}^{F1}/{}_{F2}) =$  Derated KW at different Hz

3 Phase Henrys: V<sup>2</sup>/(Kvar X 3.14 X freq)

1 Phase Henrys: V<sup>2</sup>/(2 X 3.14 X freq X vars)

1 Phase Farads: Kvar / (2 X 3.14 X freq X  $V^2$ )

#### MA Output

amps: amps / (833 X 16 + 4) volt: (V2 / V1) X 16 + 4

Heater Current (Wye)  $I_{H} = W_{H} * (V_{L-H}/(X_{H} * V_{H}^{2}))$   $I_{H} =$  Heater Current  $W_{H} =$  Wattage of 1 Heater  $X_{H} = #$  of Heaters from Line to Netural  $V_{H} =$  Rated Voltage of 1 Heater <u>Fuses for Transformer</u> Total Amperage = V\*A / Source Voltage



# **Did You Know?**

Some other items offered by Simplex, Inc. include:

## FUEL SYSTEMS

- Mission Critical Systems
- Joe Filter
- Filter Tank
- SmartFilter
- Reliant Series Fuel Tanks
- SST Series Fuel Tank
- FuelPort
- Automatic Fill Controller
- SmartPump
- Packaged Pump Sets (SPS Series)
- Skid Mounted Pump Sets (SKS Series)

## LOAD BANKS

- Watt-Muncher
- Microsoft and Microsoft +
- Powerstar
- Northstar
- Merlin
- dynaMITE
  - dynaMITE trailer available
- Electra
- Atlas-Megawatt
  - Atlas-MW trailer avilable
- Load Cube
- Polaris
- Neptune
  - Neptune trailer available
- Mars
- Mars HV
- Saturn
- Saturn HV
- Titan
- Trident
  - Trident trailer available
- LBD

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