



When real-time demand exceeds generator capacity, loads must be connected or disconnected according to load priority to avoid generator overload. **ASCO's 5800 SERIES Load Management Units** automatically supervise ATS transfers to the emergency source according to assigned priorities. These units optimize capacity usage while avoiding overload.

The ASCO 5800 Series Load Management Units provide off-the-shelf solutions for matching loads to real-time generation capacity. Models include:

Model 5810: Essential features reactively manage up to six transfer switches and a single generator

Model 5850: Sophisticated bus optimization features enhance utilization for up to eight transfer switches and up to two generators.

Leverages our industry-leading power control expertise

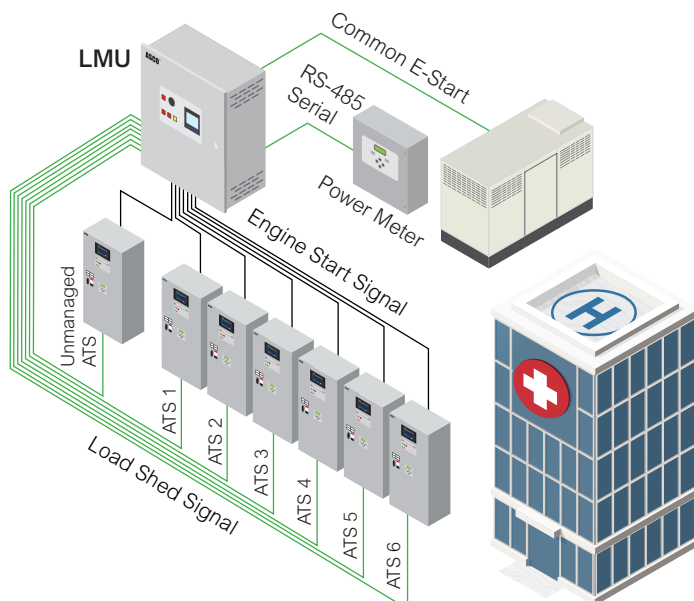
Based on control algorithms for healthcare facilities and data centers, the 5800 SERIES Load Management Units reflect ASCO's unmatched power management experience.

Standard designs provide flexible capabilities

Configurable settings allow for site-specific customization, enabling quick deployment in wide-ranging applications.

Reduce costs by maximizing generator utilization

Cost-effectively deploy generators at new and expanding facilities by sizing capacity for true demand, which is typically below maximum possible load.



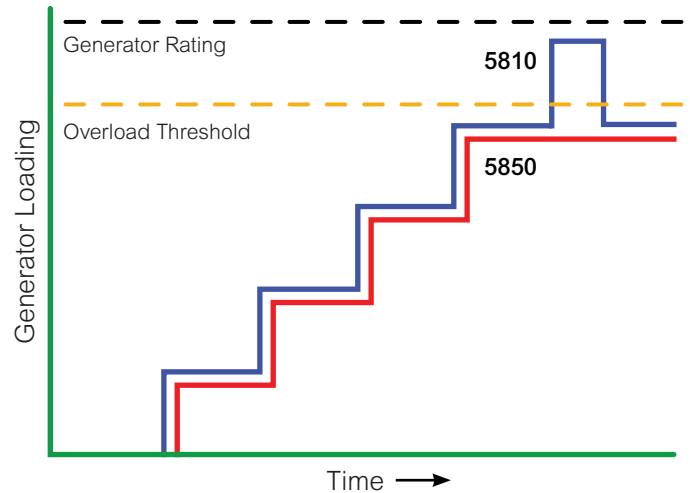
SYSTEM CONFIGURATION

Following issuance of engine start signals, the **5800 SERIES Load Management Unit** receives generator loading information from the ASCO 5210 Power Meter via serial communication. Based on this real-time data, a unit regulates the transfers using load shed signals, according to assigned priority.

Load Management Strategies

The **Model 5810** adds ATS loads until the user-configured threshold is momentarily exceeded, then removes the last ATS added. This strategy offers simple set-up and operation.

Before connecting an ATS, the **Model 5850** compares available generator capacity to the expected size of the next load, preventing transfers that could exceed overload thresholds. This strategy offers sophisticated control and precise load management.



Value-Added Features

Manual Overrides

Some circumstances could require facilities to force loads off-line or on-line, despite their assigned priority. All 5800 Series models enable users to manually force loads off of the Emergency source and allow supervised requests to connect loads to the Emergency source, regardless of assigned priority.

Time Sequencing

The ASCO 5850 Load Management Units can cycle individual loads onto and off of Emergency sources for user-defined periods. This allows capacity to sequentially serve multiple loads, providing power to each ATS for a user-defined interval.

Features and Specifications

Model	5810	5850-SG	5850-DG
Part Number	1232238	1193586	1240925
FEATURES			
Max Managed ATSs	6	8	8
Generators	1	1	2 (Paralleled)
Operation Principal	Reactive	Proactive (Bus Optimization)	Proactive (Bus Optimization)
Time Sequencing	No	Yes	Yes
LED/Audible Alarm Indicators	No	Yes	Yes
Interface	Black & White Touch Screen		
Manual Overrides	Yes via screen (supervised)		
Communications	Modbus TCP/IP		
TECHNICAL SPECIFICATIONS			
Primary Control Power	120Vac, 60Hz, 2A		
Secondary Control Power	24Vdc, 5A		
Dimensions (HxWxD)	21" x 21" x 9"		
Add/Shed Signal	24 Vdc		

Note: A separate ASCO Power Meter is required for each generator. See the [ASCO 5210 Digital Power Meter Data Sheet](#).

For custom load management solutions, contact a local ASCO sales representative.