

# Sorensen SL Series

75 W–14.4 kW

## DC and AC/DC Electronic Loads

60–500 V

- Flexible Product Line
  - Low power DC modules
  - Low power AC modules
  - High power DC,
- Remote: GPIB, RS-232, Analog
- DC Modes: CC, CR, CV, CP
- AC Modes: CR, CC with crest factor control
- Dynamic mode with slew rate control
- Flexible Data Feedback
- Current monitor output (SLM DC only)



1–720 A

~	100	115	230
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↔ GPIB ↔ RS232

The Sorensen SL series electronic loads offer the best value with the most flexible platform. A wide range of loads are available from 75-1800W with both DC and AC input in benchtop, modular and standalone form factors.

### SLM Mainframe

The SLM mainframe choices include a convenient single-bay configuration for benchtop/desktop applications or a four bay configuration for multichannel and ATE requirements. Either chassis is compatible with SLM- and SLD- loads. Each chassis contains non-volatile memory capable of storing up to 150 module setups and nine 16-step sequences for automated, standalone testing. Or for more complex test sequences, the chassis come with GPIB (optional on SLM-1) and RS-232 as standard interfaces.

### SLM Family

The SLM family includes nine models of fully programmable, single input AC or DC modular electronic loads. DC models are offered to test power supplies, battery chargers, battery discharge, power supply transient response and integration into ATE systems. AC models are ideal to test low power inverters.

The DC models support operation in Constant Current (CC), Constant Voltage (CV), Constant Resistance (CR) or Constant Power (CP) mode as well as a short simulation. Engineers have

ultimate control of current waveforms by using either the analog input or CC dynamic mode. An analog input (single input DC models) allows arbitrary current waveforms up to 20kHz with an external 0-10V signal. In dynamic mode, the pulse generator allows fast state switching between two programmed current levels with programmed slew rate and dwell times.

### SLD Family

The SLD family offers six models of fully programmable, dual input modular electronic loads. These DC modules are specifically designed for low power, high channel count testing and provide the highest channel density available.

### SLH Family

Fully programmable, high power AC or DC electronic loads. The 500V models are for PFC testing, power transformers and various other AC or DC power sources. The 300V models are used for testing of UPSs, automatic voltage regulators (AVR), and batteries.

- High current, 60V DC models for general purpose power supply testing
- High voltage, AC/DC models are intended for inverter test,
- Power Factor Correction (PFC) circuit testing (500V) and UPS testing (300V)

## Electronic Load Selection

Often the selection of programmable power supplies is based upon volts and amps capability. However when selecting an electronic load, it is important to account for volts, amps and power. The power limit is displayed on a constant power curve. A load must be selected so that the operating points are within the Power Curve (see Figure 1). For many applications in which different power sources are tested, there may be high voltage, low current requirements as well as low voltage, high current requirements. A single load may be able to handle both with good programming resolution. In cases where a single load may not work, the broad range of current, power and voltage available in the SL series allows optimum selection depending upon the voltage, current, power required.

## Applications

### Low Voltage Operation

All SL series loads operate well below 1V. However in many applications, such as fuel cell research and microprocessor voltage regulator modules (VRM), the voltage at the load inputs can be 0.1 to 0.2V. This low voltage does not allow the load transistors to fully turn-on (bottom right corner of the power contour). To utilize the full rated current of an electronic load, a boost supply can be placed in series to increase the voltage. While a fixed voltage DC-DC converter can be used as the boost supply, a programmable power supply is preferred to keep the load voltage at the minimum to draw full current as the device under test ramps up in voltage.

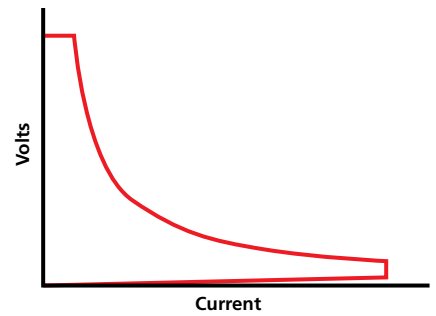
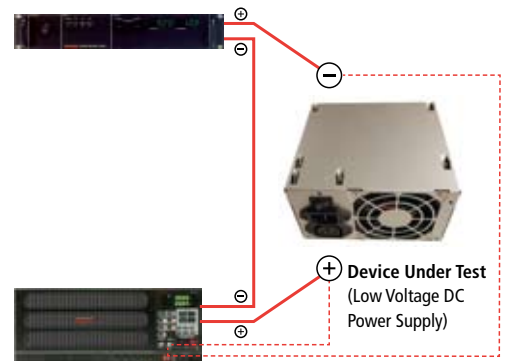


Figure 1 - Power Curve

### Key:

- Sense Leads
- Power Connections
- ⊖ Negative Terminal
- ⊕ Positive Terminal



SLM-4: Chassis



SLM: DC Module



SLM: AC Module



SLD: Dual Input DC Module



SLD: Dual Input DC Module



SLM-1 Chassis



SLH: DC Electronic Load



SLH: AC Electronic Load

# SL Series : Specifications

# 75 W–14.4 kW

SLH - Standalone AC Loads					
Model	SLH-500-4-1200	SLH-500-6-1800	SLH-300-12-1200	SLH-300-12-1800	SLH-300-18-1800
<b>Input Ratings</b>					
Power:	1200VA	1800VA	1200VA	1800VA	1800VA
Current:	4Arms	6Arms	12Arms	12Arms	18Arms
Voltage:	300Vrms / 500Vdc	300Vrms / 500Vdc	300Vrms	300Vrms	300Vrms
Frequency:	DC, 40 - 70Hz (CC Mode) ; DC - 70Hz (CR Mode)				
<b>CC Mode</b>					
Range:	0-2 / 2-4A	0-3 / 3-6A	0-6 / 6-12A	0-6 / 6-12A	0-9 / 9-18A
Resolution:	0.5 / 1mA	0.75 / 1.5mA	1.5 / 3mA	1.5 / 3mA	2.25 / 4.5mA
Accuracy:	±0.5% of (setting + range)				
Low Current:	0 - 0.2A	0 - 0.3A	0 - 0.6A	0 - 0.6A	0 - 0.9A
Accuracy:	±(0.5% of reading + 0.2% of range)				
Maximum Peak Current:	8A	12A	24A	24A	18A
<b>CR Mode</b>					
Range 1: (>0.5% of rating)	50 - 200,000Ω	33.33 - 133,000Ω	20 - 80,000Ω	20 - 80,000Ω	13.3 - 53,333Ω
Range 2: (>50% of rating)	12.5 - 50Ω	8.33 - 33.33Ω	5 - 20Ω	5 - 20Ω	3.33 - 13.33Ω
<b>4 1/2 DVM</b>					
Range:	0-500V	0-500V	300V	300V	300V
Resolution:	0.1V	0.1V	0.1V	0.1V	0.1V
Accuracy:	±(0.5% of reading + 0.2% of range)				
<b>4 1/2 DAM</b>					
Range:	0-4A	0-6A	0-12A	0-12A	0-18A
Resolution:	1mA	1mA	1mA	1mA	1mA
Accuracy:	±(0.5% of reading + 2% of range) ; ±0.5% of (reading + range) @ 50/60Hz				
<b>4 1/2 Watt Meter</b>					
Range:	0-1200W	0-1800W	0-1200W	0-1800W	0-1800W
Resolution:	0.1W				
Accuracy:	± (0.5% of reading)±3W				
VA / Power Meter:	Vrms × Arms				
Weight	18.5kgs/40.7lbs	21.5kgs/47.3lbs	18.5kgs/40.7lbs	21.5kgs/47.3lbs	21.5kgs/47.3lbs
<b>SLM - AC Modules</b>					
Model	SLM-60-20-300	SLM-150-8-300	SLM-300-4-300	SLM-500-1-300	
<b>Input Ratings</b>					
Power:	300VA	300VA	300VA	300VA	
Current:	20Arms	8Arms	4Arms	1Arms	
Voltage:	60Vrms	150Vrms	300Vrms	300Vrms / 500Vdc	
Frequency:	DC, 40 - 70Hz (CC Mode) ; DC - 70Hz (CR Mode)				
<b>CC Mode</b>					
Range:	0-10 / 10-20A	0-4 / 4-8A	0-2 / 2-4A	0-0.5 / 0.5-1A	
Resolution:	2.5 / 5mA	1 / 2mA	0.5 / 1mA	0.125 / 0.25mA	
Accuracy:	±0.5% of (setting + range)				
Low Current:	0 - 1A	0 - 0.4A	0 - 0.2A	0 - 0.05A	
Accuracy:	±2% of (setting + range)				
Maximum Peak Current:	40A	16A	8A	2A	
<b>CR Mode (1)</b>					
Range 1: (>0.5% of rating)	1.2-4,800Ω	7.5-30,000Ω	30 - 120,000Ω	200 - 800000Ω	
Range 2: (>50% of rating)	0.3 - 1.2Ω	1.875 - 7.5Ω	7.5 - 30Ω	50 - 200Ω	
<b>4 1/2 DVM</b>					
Range:	60V	150V	300V	500V	
Resolution:	0.01V	0.01V	0.1V	0.1V	
Accuracy:	±(0.5% of reading + 0.2% of range)				
<b>4 1/2 DAM</b>					
Range:	20A	8A	4A	1A	
Resolution:	0.01A	0.001A	0.001A	0.001A	
Accuracy:	±(0.5% of reading + 2% of range) ; ±0.5% of (reading + range) @ 50/60Hz				
<b>4 1/2 Watt Meter</b>					
Range:	300W				
Resolution:	0.1W				
Accuracy:	±(0.5% of reading)±3W				
VA / Power Meter:	Vrms × Arms				
Weight	3.5kgs/7.7lbs				

# SL Series : Specifications

SLM - DC Modules										
Model	SLM-60-30-150		SLM-60-60-300		SLM-250-10-300		SLM-500-10-300		SLM-60-15-75	
<b>Input Ratings</b>										
Voltage:	60V		60V		250V		500V		60V	
Current:	30A		60A		10A		10A		15A	
Power:	150W		300W		300W		300W		75W	
Minimum Voltage: (Full Current)	0.6V @ 30A		0.5V @ 60A		0.8V @ 10A		4.5V @ 10A		0.3V @ 15A	
<b>CC Mode</b>										
Range 1:   Range 2:	0-3A	0-30A	0-6A	0-60A	0-1A	0-10A	0-1A	0-10A	0-1.5A	0-15A
Resolution:	0.8mA	8.0mA	1.6mA	16.0mA	0.268mA	2.68mA	0.268mA	2.68mA	0.4mA	4.0mA
Accuracy:	± 0.2% of (Setting + Range)									
<b>CR Mode</b>										
Range 1: (I > 0.02% of RATING)	2-7.5KΩ		1-3.75KΩ		25-18.75KΩ		50-18.75KΩ		4-15KΩ	
Range 2: (I > 0.2% of RATING)	0.1067-2Ω		0.0534-1Ω		1.333-25Ω		2.67-50Ω		0.213-4Ω	
<b>CV Mode</b>										
Range:	0-60V		0-60V		0-250V		0-500V		0-60V	
Resolution:	0.016V		0.016V		0.067V		0.133V		0.016V	
Accuracy:	± 0.1% of (Setting + Range)									
<b>CP Mode</b>										
Range:	0-150W		0-300W		0-300W		0-300W		0-75W	
Resolution:	0.04W		0.08W		0.08W		0.08W		0.02W	
Accuracy:	± 0.5% of (Setting + Range)									
<b>Short Mode:</b>										
Resistance:	0.02Ω		8mΩ		0.08Ω		0.45Ω		0.02Ω	
Current:	30A		60A		10A		10A		15A	
<b>Dynamic:</b>										
T High & T Low:	50μs to 9.999s									
Rise/Fall of Range 1:	2.0-125mA/μs		4-250mA/μs		0.8-50mA/μs		0.8-50mA/μs		1.0-62.5mA/μs	
Rise/Fall of Range 2:	0.2-1.2A/μs		0.04-2.5A/μs		8.0-500mA/μs		8.0-500mA/μs		10-625mA/μs	
Accuracy:	± 10% of Setting									
<b>4 1/2 DVM:</b>										
Range:	15.0V	60.0V	15.0V	60.0V	30.0V	250.0V	199.99V	500.0V	15.0V	60.0V
Resolution:	0.001V	0.002V	0.001V	0.002V	0.001V	0.01V	0.01V	0.1V	0.001V	0.002V
Accuracy:	± 0.05% of (Reading + Range)									
<b>4 1/2 DAM:</b>										
Range:	3.0A	30.0A	6.0A	60.0A	1.0A	10.0A		10.0A	1.5A	15.0A
Resolution:	0.001A	0.01A	0.001A	0.01A	0.0001A	0.001A		0.001A	0.0001A	0.001A
Accuracy:	± 0.2% of (Reading + Range)									
<b>Current Monitor:</b>	3.0A/V		6.0A/V		N/A		N/A		1.5A/V	
<b>Load ON Volt:</b>										
Range:	0.1-25V				0.2-50V		0.4-100V		0.1-25V	
Resolution:	0.1V				0.2V		0.4V		0.1V	
Accuracy:	1% of Setting + 0.25V				1% + 0.5V		1% of Setting + 1V		1% of Setting + 0.25V	
<b>Load OFF Volt:</b>										
Range:	0-25V				0-50V		0-100V		0-25V	
Resolution:	0.01V									
Accuracy:	1% of Setting + 0.25V				1% + 0.5V		1% of Setting + 1V		1% of Setting + 0.25V	
<b>Weight:</b>	3.5kgs/7.7lbs									

# SL Series : Specifications

# 75 W–14.4 kW

SLD - Dual Input DC Modules												
Model:	SLD-60-505-255		SLD-61-505-255		SLD-80-20-102		SLD-61-5-752		SLD-62-5-752		SLD-60-105-550	
Input Rating:												
Channel	A	B	A	B	A	B	A	B	A	B	A	B
Voltage (Volt)	+60V	+60V	+60V	-60V	+80V	+80V	+60V	-60V	-60V	-60V	+60V	+60V
Current (Ampere)	50A	5A	50A	5A	20A	20A	5A	5A	5A	5A	100A	5A
Power (VA)	250W	50W	250W	50W	100W	100W	75W	75W	75W	75W	500W	50W
Minimum Voltage (Full Current)	0.4V @ 50A	0.4V @ 5A	0.4V @ 50A	0.9V @ 5A	0.4V @ 20A	0.4V @ 20A	0.4V @ 5A	0.4V @ 5A	0.4V @ 5A	0.4V @ 5A	0.4V @ 100A	0.4V @ 5A
CC Mode:												
Range	0 - 5A / 50A	0 - 0.5A / 5A	0 - 5A / 50A	0 - 0.5A / 5A	0 - 2.0A / 20A	0 - 2.0A / 20A	0 - 0.5A / 5A	0 - 0.5A / 5A	0 - 0.5A / 5A	0 - 0.5A / 5A	0 - 10A / 100A	0 - 0.5A / 5A
Resolution	1.34 / 13.4mA	0.134 / 1.34mA	1.34 / 13.4mA	0.134 / 1.34mA	0.533 / 5.33mA	0.533 / 5.33mA	0.134 / 1.34mA	0.134 / 1.34mA	0.134 / 1.34mA	0.134 / 1.34mA	2.66 / 26.6mA	0.134 / 1.34mA
Accuracy	±0.2% of (Setting + Range)											
CR Mode:												
Range 1: (Ω) (>0.02% of rating)	1.2 - 4500	12 - 45000	1.2 - 4500	12 - 45000	4 - 15000	4 - 15000	12 - 45000	12 - 45000	12 - 45000	12 - 45000	0.6 - 2250	12 - 45000
Range 2: (Ω) (>0.2% of rating)	0.04-1.2	0.4-12	0.04-1.2	0.4-12	0.133-4	0.133-4	0.4-12	0.4-12	0.4-12	0.4-12	0.02-0.6	0.4-12
CV Mode												
Range	0 – 60V		0 – (-60)V		0 – 60V		0 – (-60)V		0 – 60V		0 – 60V	
Resolution	16mV		16mV		21.3mV		21.3mV		16mV		16mV	
Accuracy	±0.2% of (Setting + Range)											
Short Mode												
Resistance	8mΩ	0.08Ω	8mΩ	0.18Ω	0.02Ω	0.02Ω	0.02Ω	0.06Ω	0.06Ω	0.06Ω	4mΩ	0.08Ω
Current	50A	5A	50A	5A	20A	20A	5A	5A	5A	5A	100A	5A
Dynamic Mode												
T High / T Low	50μs to 9.999s											
Slew Rate (mA/μs)	4-200 / 40-2000	0.4-20 / 4-200	4-200 / 40-2000	0.4-20 / 4-200	1.6-80 / 16-800	1.6-80 / 16-800	0.4-20 / 4-200	0.4-20 / 4-200	0.4-20 / 4-200	0.4-20 / 4-200	8-400 / 80-4000	0.4-20 / 4-200
Resolution (mA/μs)	0.8 / 8	0.08 / 0.8	0.8 / 8	0.08 / 0.8	0.32 / 3.2	0.32 / 3.2	0.08 / 0.8	0.08 / 0.8	0.08 / 0.8	0.08 / 0.8	1.6 / 16	0.08 / 0.8
Accuracy	±(10% +10μs)											
4 1/2 DVM:												
Range	15V / 60.00V				20V / 80V				15V / 60.00V			
Resolution	0.001 V / 0.01 V											
Accuracy	±0.05% of (Reading + Range)											
4 1/2 DAM:												
Range	15A / 50A	1.5A / 5A	15A / 50A	1.5A / 5A	2.0A / 20A	2.0A / 20A	1.5A / 5A	1.5A / 5A	1.5A / 5A	1.5A / 5A	10 / 100A	1.5A / 5A
Resolution	1mA / 10mA	0.1mA / 1mA	1mA / 10mA	0.1mA / 1mA	0.1mA / 1mA	0.1mA / 1mA	0.1mA / 1mA	0.1mA / 1mA	0.1mA / 1mA	0.1mA / 1mA	1 / 10mA	0.1mA / 1mA
Accuracy	±0.2% of (Reading + Range)											
Load ON Voltage												
Range	0.1-25V											
Resolution	0.1V											
Accuracy	1% of Setting +0.25V											
Load OFF Voltage												
Range	0-25V											
Resolution	1mV											
Accuracy	1% of Setting +0.25V											

# SL Series : Specifications

SLH - Standalone DC Loads								
Model	SLH-60-120-600	SLH-60-120-1200	SLH-60-120-1800	SLH-60-240-1200	SLH-60-240-1800	SLH-60-360-1800	SLH-500-60-1800	
<b>Input Ratings</b>								
Voltage	60V						500 V	
Current	120A			240A		360A	60 A	
Power	600W	1200W	1800W	1200W	1800W	1800W	1800 W	
Minimum Voltage (Full Current)	0.5V @ 120A	0.4V @ 120A	0.3V @ 120A	0.5V @ 240A	0.5V @ 240A	0.4 @ 360A	6V @ 60A	
<b>CC Mode</b>								
Range	0-12 / 0-120A			0-24 / 0-240A		0 - 36 / 360A	0 - 6/60 A	
Resolution	3.2 / 32mA			6.4 / 64mA		9.6 / 96mA	1.6/16 mA	
Accuracy	±0.2% OF (SETTING + RANGE)							
<b>CR Mode</b>								
Range 1 (I>0.05% of rating)	0.5 - 1875Ω			0.25 - 937.50Ω		0.167 - 624.9Ω	8.33 - 18750Ω	
Range 2 (I>0.5% of rating)	0.027 - 0.5Ω			0.0133 - 0.25Ω		8.3 - 167mΩ	0.444 - 8.33Ω	
<b>CV Mode</b>								
Range	0 - 60V						0 - 500 V	
Resolution	0.016V						0.133V	
Accuracy	±0.1% OF (SETTING + RANGE)							
<b>CP Mode</b>								
Range	0 - 600W	0 - 1200W	0 - 1800W	0 - 1200W	0 - 1800W	0 - 1800W	0-1800W	
Resolution	0.16W	0.32W	0.48W	0.32W	0.48W	0.48W	0.48W	
Accuracy	±0.5% OF (SETTING + RANGE)							
<b>Short Mode</b>								
Maximum Resistance	4.2mΩ	3.3mΩ	2.5mΩ	2.1mΩ		1.1mΩ	0.1 Ω	
Current	120A			240A		360A	60A	
<b>Dynamic Mode</b>								
T High / T Low	50μs to 9.999s							
Slew Rate Low	8mA - 500mA/μs			16mA - 1A/μs		24mA - 1.5A/μs	4.8-300 mA/μs	
Slew Rate High	80mA - 5A/μs			0.160A - 10A/μs		0.24A - 15A/μs	0.048-3.0 A/μs	
Accuracy	±(10% OF SETTING +10μs)							
<b>4 1/2 DVM</b>								
Range	0 - 20.00 / 60.00V						0 - 60.00/600.0	
Resolution	0.001 / 0.01V						0.01/0.1V	
Accuracy	±0.05% OF (READING + RANGE)							
<b>4 1/2 DAM</b>								
Range	0 - 12A / 0 - 120A			0 - 24A / 0 - 240A		0 - 36A / 0 - 360A	0 - 6/60 A	
Resolution	1mA / 4mA			1mA / 10mA		1.2mA / 12mA	0.001A/0.01A	
Accuracy	±0.5% OF (READING + RANGE)							
Current Monitor	12A/V			24A/V		36A/V	N/A	
<b>Load ON Volt</b>								
Range	0.1 - 25V						0.4 - 100V	
Resolution	0.1V						0.4V	
Accuracy	1% of SETTING +0.25V							
<b>Load OFF Volt</b>								
Range	0 - 25V						0 - 100V	
Resolution	0.1V							
Accuracy	1% of SETTING +0.25V							
Weight	15.2kgs./33.4lbs	19.4kgs/42.7lbs	23.6kgs/51.9lbs	19.4kgs/42.7lbs	23.6kgs/51.9lbs	23.6kgs/51.9lbs	23.6 kgs. / 51.9 lbs.	

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Common	
Software	LabVIEW Driver can be downloaded at no cost: <a href="http://www.elgar.com/products/SL/SL_Downloads.htm">www.elgar.com/products/SL/SL_Downloads.htm</a>
Regulatory	Certified to UL/CSA 61010 and IEC/EN 61010-1, CE Compliant (LVD and EMC Directives)
Environmental	Operating Temperature: 0° to 40°C Storage Temperature: -10° to 65°C
Cooling	Front, Side, Top Air Inlets, Rear Exhaust, Units may be rackmounted without spacing.
SLH Memory	150 Settings for DC, 5 Settings for AC
Readback	Voltage, Current, Power: 16-bit resolution, VA: $V_{rms} \times Arms$
Analog Input	SLM: DB9 connector, SLH: BNC connector. DC, Single Input (SLH or SLM), CC Mode: 0-10V = 0 – FS, Bandwidth: 20kHz, Sums Current with Programmed Value
AC (SLH or SLM)	Sync signal on zero crossing
Remote Programming	SLM-1: RS-232C, GPIB (Optional), SLM-4: RS-232C, GPIB, analog, SLH: RS-232C, GPIB, analog
Dynamic Mode (DC Models) (see Figure 4)	Mode: CC, T-high, T-low: 50 $\mu$ s to 9.999 sec, Slew Rate: See Specification Tables, I high, I low: 0 to Rated Current
Options and Accessories	-1: GPIB, SLM-1 or SLM-4 only -01: 100/200V AC input, SLM-1 only -11: 100/200V AC input and GPIB M12: Front panel bus bar, SLH DC only M23: Front panel bus bar and 100/200V AC Input, SLH DC only
Input Power	
Line:	32°F to 122°F, 100% load (0°C to 50°C)
Frequency:	-4°F to 158°F (-20° C to 70°C)
Power Consumption	30–90% RH (no condensation)
Protection: AC input fuses	
OVP, OCP, OPP:	~5% above rated maximum
OTP:	~85°C Heat sink temperature
DC Loads:	Reverse Polarity All protection modes turn off LOAD input
Hardware Input Voltage Limit:	60V Rated DC Input: 100V, 250V Rated DC Input: 400V, 500V Rated DC and all AC Input: 900V
SLM Chassis	
Memory	150 memory settings for DC modules, 5 memory settings for AC modules, Memory settings store entire chassis condition
Sequencer (see Figure 2)	
Control	Front panel
Timing	100ms-9.9 secs per step
Maximum Steps per Sequence	16
Number of Sequences	9
Programming	
All Parameters	12-bit resolution
AC Crest Factor (see Figure 3)	Sinewave: $\sqrt{2}$ , 1.5-3.5, Resolution: 0.1 Squarewave: 1.0-3.4, Resolution: 0.1
DC	$\sqrt{2}$ , 2.0-3.5, Resolution: 0.5
Maximum Peak	Current = 2 x Rated Current

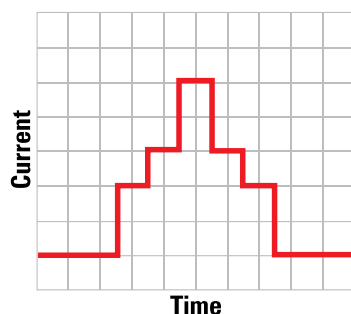


Fig.2 - Sequencer for Modules

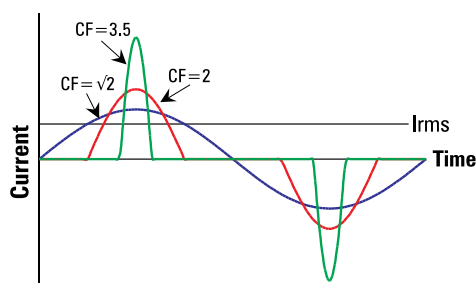


Fig.3 - Crest Factor for AC models

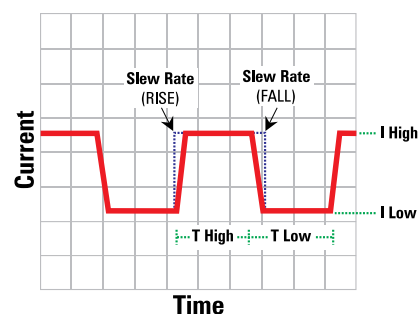
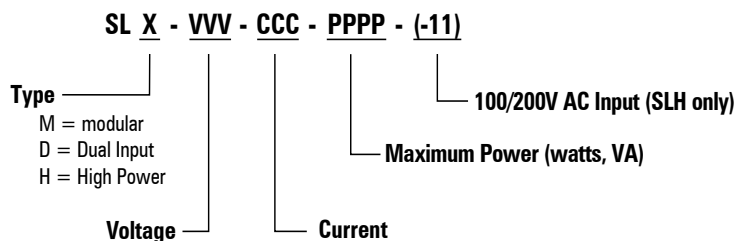


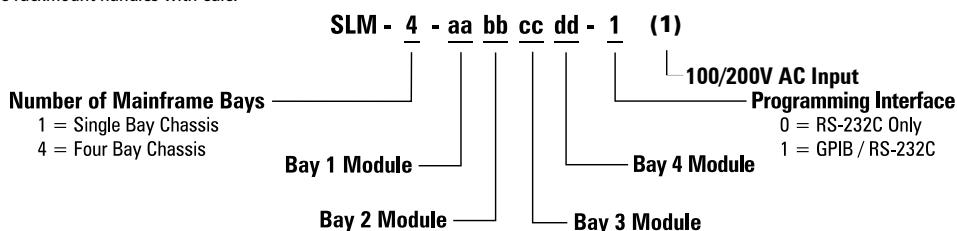
Fig.4 - Dynamic Mode for DC models



### SLH Stand Alone DC Loads

Model Number	Description
SLH-60-120-600	60V / 120A / 600W rack mounted, programmable DC load
SLH-60-120-1200	60V / 120A / 1200W rack mounted, programmable DC load
SLH-60-120-1800	60V / 120A / 1800W rack mounted, programmable DC load
SLH-60-240-1200	60V / 240A / 1200W rack mounted, programmable DC load
SLH-60-240-1800	60V / 240A / 1800W rack mounted, programmable DC load
SLH-60-360-1800	60V / 360A / 1800W rack mounted, programmable DC load
SLH-500-60-1800	500V / 60A / 1800W rack mounted, programmable DC load
SLH-500-4-1200	500Vdc/300Vrms / 4A / 1200W rack mounted, programmable DC load
SLH-500-6-1800	500Vdc/300Vrms / 6A / 1800W rack mounted, programmable AC/DC load
SLH-300-12-1200	300Vrms / 12A / 1200W rack mounted, programmable AC/DC load
SLH-300-12-1800	300Vrms / 12A / 1800W rack mounted, programmable AC/DC load
SLH-300-18-1800	300Vrms / 18A / 1800W rack mounted, programmable AC/DC load

All SLH models include rackmount handles with ears.



### SLM & SLD Modular Loads

Code	Module / Chassis	Description
C	SLM-4	Mainframe Chassis, Four (4) Bay for SLM, SLD modular loads includes GPIB/RS-232C
C	SLM-1	Mainframe Chassis, Single bay for SLM, SLD modular loads
10	SLM-60-30-150	DC Module, 60V / 30A / 150W
11	SLM-60-60-300	DC Module, 60V / 60A / 300W
12	SLM-250-10-300	DC Module, 250V / 10A / 300W
14	SLM-500-10-300	DC Module, 500V / 10A / 300W
15	SLM-60-15-75	DC Module, 60V / 15A / 75W
32	SLD-80-20-102	DC dual input module, 80V / 20A / 100W x 2
30	SLD-60-505-255	DC dual input module, 60V / 50A / 250W, 60V / 5A / 50W
31	SLD-61-505-255	DC dual input module, 60V / 50A / 250W, -60V / 5A / 50W
33	SLD-61-5-752	DC dual input module, 60V / 5A / 75W, -60V / 5A / 75W
34	SLD-62-5-752	DC dual input module, -60V / 5A / 75W x 2
35xx	SLD-60-105-550	DC dual input module, 60V / 100A / 500W, 60V / 5A / 50W
50	SLM-60-20-300	AC/DC Module, 60V / 20A / 300W
51	SLM-150-8-300	AC/DC Module, 150V / 8A / 300W
52	SLM-300-4-300	AC/DC Module, 300V / 4A / 300W
53	SLM-500-1-300	AC/DC Module, 500Vdc/300Vrms / 1A / 300W
BB	SLM-BB	Blank Panel