

SL20 Server Rack Heater

Precision Heat Generation for Server Racks

Load Banks Direct, LLC is a leading manufacturer of high-capacity Load Banks. The SL Server Rack Heater Series is part of the dedicated line of load banks designed for data center commissioning.

During data center design and construction, it is critical to test the HVAC cooling systems and the hot-aisle / cold-isle design. The SL20 is a 19" rack mountable air heater that simulates the heat generated by a server. With adjustable load steps to 20 KW and variable airflow speed control, the SL20 can accurately mimic the different low and high power density servers available today.



- Specifically designed for mounting in a 19" server rack. The 43 pound lightweight design allows for easy handling by one person.
- 10U high (17.5") with convenient locating pins and quarter turn locking tabs.
- A minimum resolution of 500 Watts allows for precise testing. Thermal load steps start at 1.5 KW.
- Force air-cooled, rated for continuous operation.
- Standard C20 plugs for connection to power distribution bus.
- Digital multimeter displays voltage, current and frequency.
- Local operator controls include individual lighted load steps, fan speed control and indicator lights for fan-on and over-temperature.
- Variable air speed control allows for precision thermal testing and delta-T adjustments.



TOTAL CAPACITY RATING CHART			
VOLTAGE	PHASE	KW	AMPS
240VAC	1	20.0	83.3
230VAC	1	18.4	80.0
220VAC	1	16.8	76.4
208VAC	1	15.0	72.2

THERMAL RATINGS PER CHANNEL			
CHANNEL	240VAC	230VAC	208VAC
P1	S1: 500W	S1: 500W	S1: 500W
	S2: 1.5KW	S2: 1.4KW	S2: 1.4KW
	S3: 1.5KW	S3: 1.13KW	S3: 1.13KW
P2	S4: 3KW	S4: 2.76KW	S4: 2.25KW
P3	S5: 3KW	S5: 2.76KW	S5: 2.25KW
P4	S6: 3.5KW	S6: 3.2KW	S6: 2.63KW
P5	S7: 3.5KW	S7: 3.2KW	S7: 2.63KW
P6	S8: 3.5KW	S8: 3.2KW	S8: 2.63KW

Operator Protection

- * Over-temperature protection
- * Internal fuse protection of channel heater circuits

Cooling & Airflow

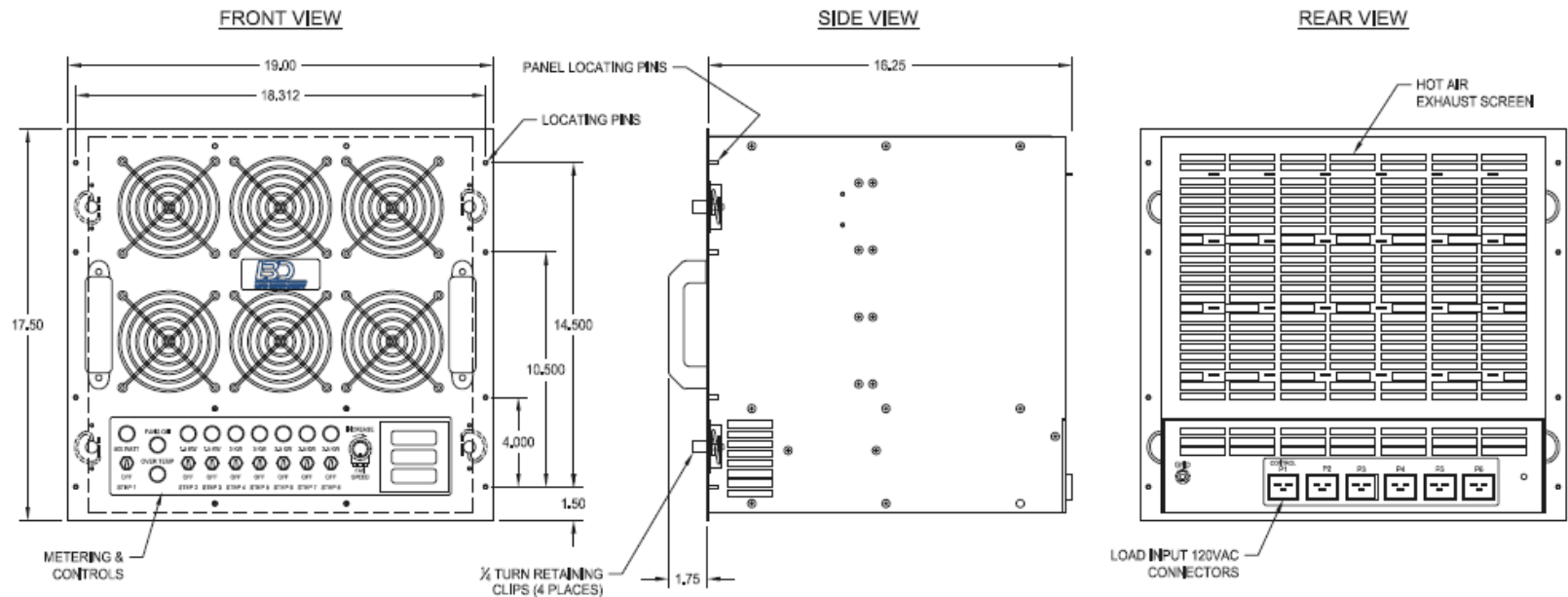
There are six high speed cooling fans that exhaust the hot air out the rear of the enclosure. The variable speed control produces approximately 375 - 1584 CFM.

LBD-SL™ Load Elements

The SL heater elements are designed specifically for the server rack application and variable cooling airflow. Changes in resistance are minimized by maintaining conservative resistor designs.

Construction | Dimensions

The SL20 has a rugged aluminum and galvanized construction with convenient handles for sliding the heater in and out of the rack.



Height: 17.5" (10U)
Depth: 16.25"
Width: 19" (for standard 19" server rack)
Weight: 43 pounds [19.5 kg]

Control Power

48VDC control power is supplied via an internal power supply.

Operator Controls

- Illuminated main power on switch
- Illuminated thermal step switches
- Fan speed control
- Indicator lights for fan-on and over-temperature
- Digital mutlimeter displaying voltage, current and KW or frequency

SL20 Resources

SL20 Outline Drawing

Your Complete Solutions Provider | When Testing Matters

LBD's complete line of portable and stationary Load Bank products offers industry exclusive load testing solutions for generator set dealer/distributor networks, service arms, rental companies, end users, and original equipment manufacturers of generator sets, UPS systems, turbines, fuel cells, wind power, and battery systems. LBD is your factory-direct complete solutions partner.