RigRack 120V Modular Power Rack

The Vari-Lite RigRack is a modular 120V theatrical power rack with high performance dimmed and relay-controlled power for the largest entertainment venues. This 96-circuit power rack can combine up to 48 user-swappable modules to meet the demands of any production, with status reporting included in most modules. Users can interchange modules between productions to meet their changing power needs, with modules available for IGBT dimming, relay-controlled power, constant power, and a combined SCR phase dimming, relay, and constant power module. For peace of mind, RigRack offers a 50,000 SCCR fault current rating.

Dual 20A power module options include:
- IGBT Dimming module with status reporting
- Relay module with status reporting
- Combined SCR Phase Dimming, Relay, and Constant Power module with status reporting
- Constant Power module

RigRack offers multiple connectivity and control options, including sACN, Art-Net, Vision.Net, and DMX. It also supports contact closure for UL924 applications. In addition, an optional secondary processor provides full tracking backup for ultimate reliability. To make things easy to commission and manage, the system includes browser-based configuration and local controls for setup and testing.

- 96-circuit, 48-module power rack with status reporting – modular power for large entertainment venues

- Selection of user-swappable dual 20A power modules – Wide range of easy-to-swap power control options that can be combined in any way to meet the demands of each production

- Broad connectivity and control options including Ethernet (sACN, Art-Net, Vision.Net), RS485 (Vision.Net, DMX), and Contact Closure (UL924) – connect where and how you need it

- Optional secondary processor with full tracking backup available – peace of mind for your production

- Web Browser Configuration – Easily make quick adjustments when you need

- Local controls for set up and testing – simply configuration and testing right from RigRack

- Integrated 4 port Ethernet switch – connect to nearby touchscreens, DMX gateways, and other Ethernet devices with a single cable run

- Lockable door – security and safety for your system.

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Specifications

Due to continuous improvements and innovations, specifications may change without notice.

Electrical

Power Source	Mains Fed
Supply Voltage	120V, 3 phase up to 800 amps
Max Current (per phase)	800A
Load rating/channel	20A
Modules	Up to 48
Number of Circuits	Up to 96

Data

DMX Input	1x 5 pin Phoenix
DMX Thru	1x 5 pin Phoenix
Vision.Net	1x 9 pin Phoenix
Ethernet	5x RJ45
Link (to additional units)	1x 8 pin Phoenix
Panic	2x 3 pin Phoenix

Connectivity

Protocols	DMX512
	Vision.net
	sACN
	Art-Net
	ShowNet

Installation

Mounting	Floor Standing
Mounting Holes	4 x 1/4" bolts, 725.96 (28.58") x 825.5 (32.5")

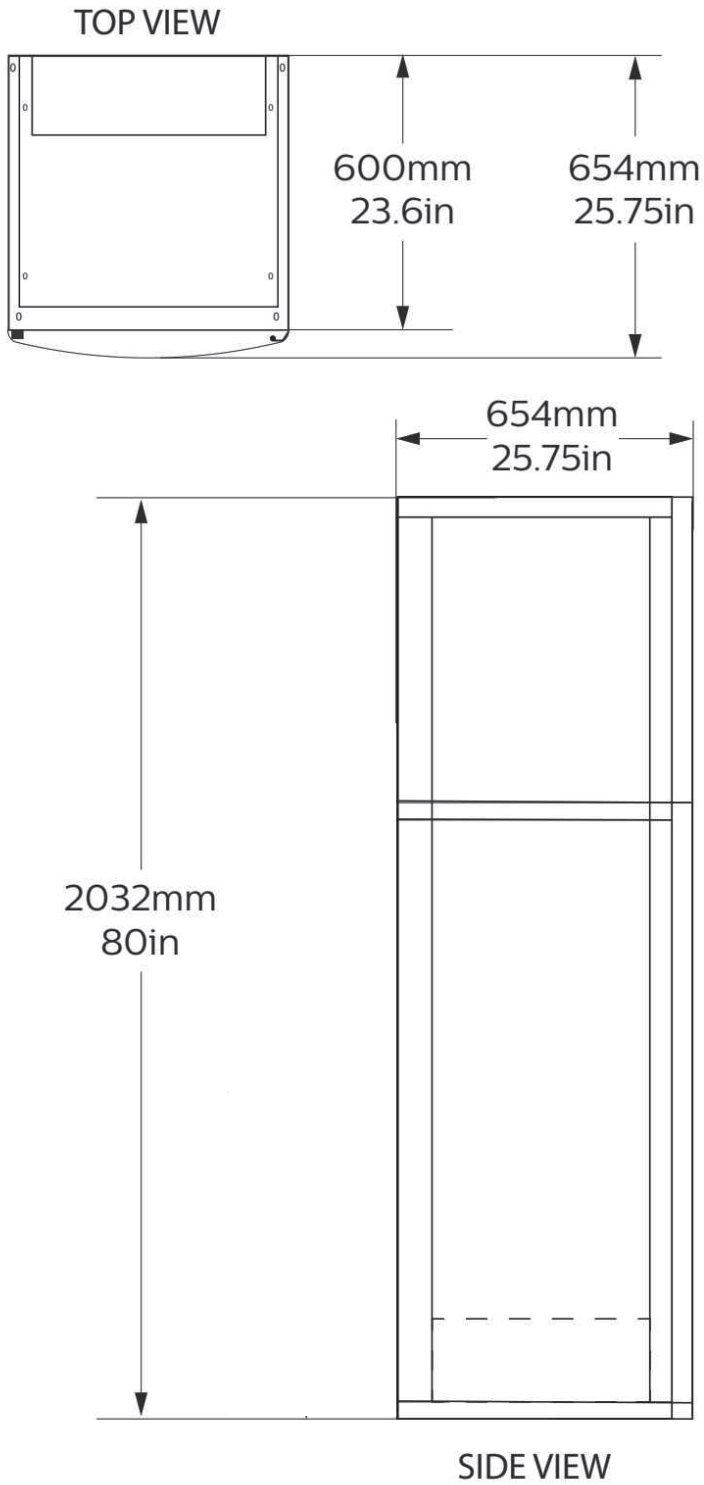## Certification and Safety

Ingress protection rating	IP 20
Approbations	cETLus, CE, UKCA
Conformity	EMC emissions to EN50081-1, EB55014
	EMC immunity to EN50082-1, IEC1000-2-2
	Safety: EN60950m, EN60439 Part 1 (also part 12 BS5486)
	UL1950

Physical

Construction	Formed Steel
Housing Color	Black
Dimensions (H x W x D)	
	2032 (80") x 623 (24.5") x 660 (26")
Weight	223 kg (491.6lb)
Operating Temperature	0 - 40°C (32 - 104°F)
Cooling System	Convection
Humidity	5-90% non-condensing

Dimensions

TOP VIEW

600mm
23.6in

654mm
25.75in

654mm
25.75in

2032mm
80in

SIDE VIEW

Product and Accessories

When ordering, include everything required from below for each enclosure.

Enclosures	Order Code
48 module (96ch) RigRack enclosure (incl. Phase Sense & Amp Trap)	53804-111
48 module (96ch) RigRack enclosure, bussed (incl. Phase Sense)	53804-112

Modules	Order Code
Dual 20A Constant RigRack module	53804-131
Dual 20A Relay RigRack module, with status reporting	53804-132
Dual 20A IGBT (1000µs) RigRack module, with status reporting	53804-133
Dual 20A Dimming (500µs) / Relay / Constant RigRack module, with status reporting	53804-135

Processor	Order Code
Single RigRack (or retrofit) processor in a dual tray	53804-021
Second / spare RigRack (or retrofit) processor	53804-022

Accessories	Order Code
Blank RigRack (or retrofit) module	53804-041
RigRack buss bar link	53804-142
RigRack spares kit	53804-143
RigRack vibration pad (floor)	53804-144
RigRack vibration pad (wall)	53804-145
RigRack common neutral bus	53804-146
RigRack Numbering Strips – 4 racks worth numbered 1 to 384	53804-147

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