

# JS-TECH™ 624 PACK

6 x 2.4kW Portable Dimmer Pack



**“14,400 Watts of Wireless Hi-Performance Dimming!”**

JS-TECH™ portable dimmers deliver the ultimate value in high performance portable dimming. Designed to set a new standard, this rugged design is ideal for use in applications where multiple location dimming is required. Simple to install and operate, these dimmers can significantly lower electrical installation costs.

Large input wire capacity permits feeder power up to 60 Amps at 120/240 Volt single phase or 40 Amps at 120/208 Volt three phase! Designed for ease of installation and service with removable top panel for control section access. Future servicing of high voltage receptacles or electronic controls is fast and easy.

Large high performance chokes and “MagLev®” thermal management technology produces superior cooling that is virtually silent. All electronics are easily and remotely monitored with intuitive status LED’s. Optional wireless DMX 512 receiver and a high-resolution (16 bit) fade make this dimmer a star performer in the portable category!

- ✦ Six 2400 Watt dimmers in a robust portable high density package.
- ✦ Compact stackable design permits system expansion as necessary.
- ✦ Dims standard or low-voltage incandescent quartz lamps.
- ✦ Superior 16-bit fade resolution provides unmatched performance.
- ✦ Optional wireless DMX receiver eliminates control wiring.
- ✦ Integral spring retracted, low profile carrying handle for ease of portability.
- ✦ Magnetic breakers for maximum circuit protection.
- ✦ Over-heat and over-current protected.
- ✦ Dimmer SCR’s are 200% rated.
- ✦ “MagLev®” thermal management technology produces superior cooling that is virtually silent.
- ✦ Status LED’s allow easy remote setup and troubleshooting.
- ✦ Optional 19” rack mount ears available.
- ✦ Up to 10 year product warranty available!



**JOHNSON SYSTEMS INC.**

“PROGRESSIVE ALTERNATIVES IN LIGHTING CONTROL”

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MANUFACTURER MEMBER

**ESTA**



ENTERTAINMENT SERVICES & TECHNOLOGY ASSOCIATION

# JS-ICON™ 624 PACK CHARACTERISTICS

## Power Requirements

120/208 VAC 3Ø 5 wire up to 40A. Max. rating 14.4kW or 120/240 VAC 1Ø 4 wire up to 60A. Max. rating 14.4kW.

## Power Termination

Terminal block. 20A magnetic breaker protection per circuit.

## Environment

Temperature Range: 23°F (-5°C) to 113°F (45°C) ambient.  
Humidity Range: 0% to 90% non-condensing.

## Dimmer Capacity and Load Type

6 x 2.4kW incandescent quartz lamps and electronic (SCR dimmable) low voltage fixtures.

## Switch Type

200% rated, non-proprietary SCR solid state relay.

## Rise Time

300µs fully epoxy-encapsulated chokes are made from ultra low audible noise core material.

## Physical

16" W x 17" D x 7" H (40.6 cm x 43.2cm x 17.8 cm).

## Weight

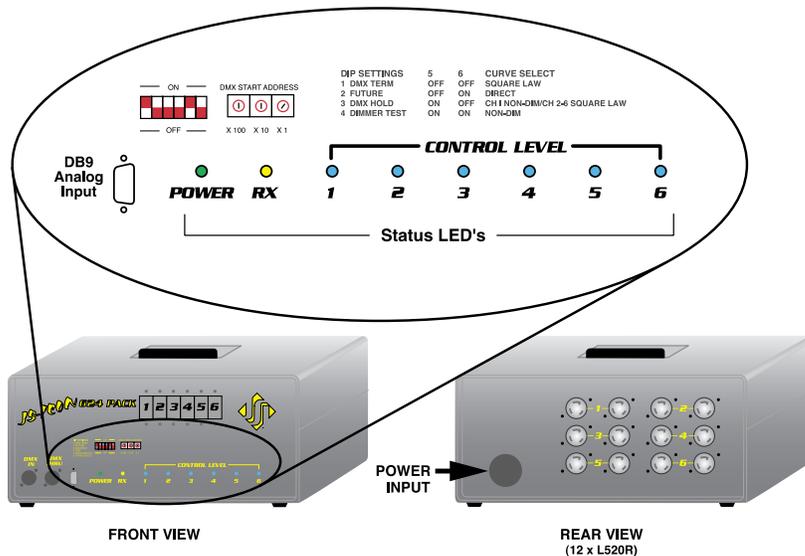
Approximately 35 lbs. (16 Kg).

## Material

0.125" aluminum.

## Finish

Textured black powdercoat.



## OUTPUT OPTIONS



# JS-ICON™ 624 PACK SPECIFICATIONS

- The JS-ICON™ 624 PACK shall be capable of dimming standard incandescent, quartz and SCR (silicon controlled rectifier) dimmable electronic low voltage fixtures.
  - The JS-ICON™ 624 PACK enclosure shall contain six (6) dimmers each capable of controlling up to 2.4kW.
  - The JS-ICON™ 624 PACK shall be powered by a 120/208 VAC 3Ø or 120/240 VAC supply of up to 40/60 Amps respectively. Individual circuit magnetic breaker protection shall permit full rated operation of 14.4kW in performance environments.
  - The system SCR's shall be dual encapsulated units with a minimum of a 200% rating. The system SCR's will provide symmetrical AC output to the load throughout the entire control range of off to full intensity. The system SCR's will have a minimum of 2500 Volt isolation between the low and high voltage side of the component thereby ensuring data and DC isolation.
  - The JS-ICON™ 624 PACK shall utilize "MagLev®" thermal management technology to produce superior cooling that is virtually silent. Fan noise shall not exceed 26dBA.
  - The JS-ICON™ 624 PACK shall employ thermal shutdown circuitry that is redundant from electronic operation.
  - Each dimmer shall be capable of a high resolution 16-bit output control of the load thereby permitting precise and smooth control of incandescent loads from full rating to as small as 5 Watts.
  - The JS-ICON™ 624 PACK shall be controlled with DMX 512-A protocol via XLR or RJ-45 connectors. A "Wireless" DMX option shall permit wireless control up to a distance of 400 ft. (122 m).
  - Each dimmer shall contain a high performance, copper wound, hybrid core toroidal magnetic filter (choke). Each choke shall be rated at 300µs and epoxy encapsulated for maximum harmonic noise reduction. The choke will have a temperature rise of 156°F (69° C) max. at full load.
  - Heat loss for each 2.4kW dimmer shall not exceed 48 Watts or 100 BTU's per hour per connected kW of load. Dimmers shall be capable of sustained operation at full loading with an ambient temperature of 113°F (45°C).
  - Control wire to each JS-ICON™ 624 PACK shall be standard DMX control cable (Belden 9829 or equiv.) or CAT-5E.
  - Each JS-ICON™ 624 PACK shall accept both DMX 512-A data and analog 0-10VDC input. Data and analog inputs shall overlap in a "highest takes precedence" (H.T.P.) fashion.
  - All electronics shall be fully digital and microprocessor based. Such electronic circuitry shall permit real time signal monitoring and status LED indication to allow easy remote setup and troubleshooting.
  - All printed circuit boards (PCB's) shall be FR4/G10 with U.L. 94V-0 Flame Class Rating.
  - All electronic circuitry shall be accessible for service with the removal of the top pack panel only. All PCB's shall employ "breakaway" style connectors to facilitate ease of service.
  - The entire assembly shall be ETL Listed and comply fully with UL508 and CSA 22.2 safety approval standards.
- Specifications subject to change without notice.*



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