

# PDS6R-DMX

## 6 WAY DMX CONTROLLED POWER SWITCHER



### DESCRIPTION

The Jands PDS6R-DMX DMX controlled power switcher is designed for fixed or mobile applications, where DMX on/off control of electrical loads is required via contactors.

The PDS6R-DMX is based on the Jands PDS6R Power Distribution Unit, fitted with the Jands DS6 DMX control switching module and six (6) 20A mains contactors.

The PDS6R-DMX fits into any standard 19 inch equipment rack, including the Jands "Roobar" system.

The PDS6R-DMX facilitates compliance with the mandatory RCD requirement of AS/NZS4249 even when connected to supplies fed from non-RCD protected switchboards.

A DMX512 input and loop output permits the PDS6R-DMX to be used anywhere that a conventional dimmer is used. The DMX base address for all 6 channels is settable via the front panel thumbwheel switches of the integral JND-DS6 module.

Special DMX addresses are used for all-channel-on and single-channel-on tests, as well as for setting DMX level switching thresholds.

Individual Channel Mode switches allow outputs to be forced on, forced off or controlled by the DMX signal.

### FEATURES

- Six (6) x 20A output channels
- Twelve (12) x 20A socket outlets
- Individual 30mA/20A RCD/MCB per channel
- Phase Power indicators - 3 Blue LEDs
- Neutral/Earth Fault indicator - Red LED
- Control Power indicator - Red LED
- DMX signal present indicator - Green LED
- Channel ON indicators - 6 Blue LEDs
- DMX Input and Loop output
- DMX Base Address selection thumbwheels
- Individual-channel test and all-channel test mode
- Adjustable DMX level switching threshold
- ON-OFF-DMX mode switch per channel
- All steel construction

### OVERALL SPECIFICATIONS

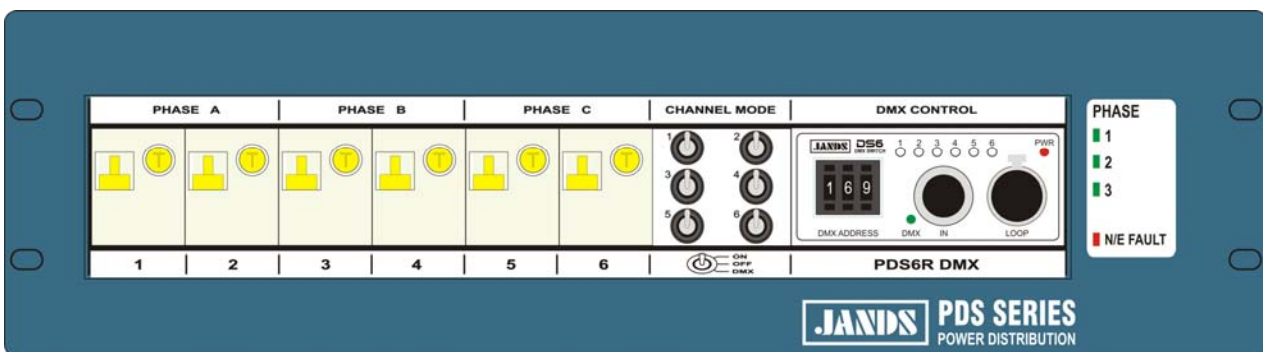
Supply type	: 3 phases +N +E
Supply voltage	: 230/400VAC 50Hz
Supply current	: 40A / phase (max)
Supply connector	: 40A 5 Pin 3 Phase Plug
Supply cable	: 2m captive flexible tail
Output current	: 20A / channel
Output connectors	: 2 x 20A 3 pin single phase outlet / channel
Output channels	: 6
Earth Fault Protection	: 30mA RCD per channel
Overload Protection	: 20A MCB per channel
Diversity Factor	: 0.77
Internal control fuse	: 4A fast blow
Temperature range	: 0 °C min to 40 °C max
IP Rating	: IP2X
I <sub>CP</sub> (max supply)	: 20kA
I <sub>CC</sub> (output)	: 10kA
Dimensions (mm)	: 483W x 347D x 132H (3RU)
Net/shipping weight	: 10/13kg

### SUPPLIED ACCESSORIES

- User Manual
- Warranty Registration Card

### ORDERING INFORMATION

MODEL/PART	PART NUMBER
PDS6R DMX Power Switcher	JND-PDS6R-DMX
Roobar 3RU stackable equipment rollcage	JND-ROOBAR3RU



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Specifications subject to change without notice. Manufactured by Jands Pty Ltd ABN 45 001 187 837.  
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# PDS6R-DMX

TSS JND-PDS6R-DMX-0611-04

# PDS6R-DMX

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### ARCHITECT & ENGINEER'S SPECIFICATION

#### Mechanical

The DMX controlled power switcher shall be designed to rack mount in a standard 19 inch equipment rack.

The Power Distribution Unit shall be 483mm wide x 347mm deep x 132mm high (3RU).

The Power Distribution Unit shall be constructed of 1.2 mm steel. All metal surfaces shall be properly treated and finished in durable powder coat.

All operator controls shall be provided on the front panel of the unit. The control surface shall be scratch-resistant Lexan with legends silkscreen printed from behind.

#### Electrical

The DMX controlled power switcher shall operate from a three-phase, neutral and earth supply of 230/400 volts phase-to-neutral/phase-to-phase, with a supply frequency of 50Hz.

The DMX controlled power switcher shall draw 40 amps per phase when all output channels are fully loaded.

The DMX controlled power switcher shall be rated for connection to a supply with a prospective fault current ( $I_{CP}$ ) of  $\leq 20kA$  and shall limit output conditional fault current ( $I_{CC}$ ) to  $< 10kA$ .

The DMX controlled power switcher shall be fitted with a captive two (2) metre power cable fitted with a 40 amp, 5 pin, three phase plug to AS/NZS3123:2005.

Each output circuit of the DMX controlled power switcher shall be protected by a combination 30mA/20A Residual Current Device/Magnetic Circuit Breaker (RCD/MCB).

Each output circuit of the DMX controlled power switcher shall be fitted with two (2) parallel connected 20A 3 pin single phase socket outlets to AS3112:2004.

The front panel shall indicate the presence of phase voltages with three blue LEDs.

A red Neutral/Earth fault LED shall indicate when a neutral to earth voltage in excess of approximately 20 volts is present.

The DMX controlled power switcher shall be designed and tested to comply with AS3439.1:2002.

#### Electronic

The DMX controlled power switcher shall be fitted with a 5 pin input connector for DMX512 input signals and a loop out connector for continuation of the DMX signal to other units.

The DMX starting address shall be set by a series of three (3) thumbwheel switches on the front of the unit.

Additional features of the controller shall be via means of special address numbers outside the normal range of channels of the DMX signal (001—512).

The address 900 will turn all channels ON, while the addresses 901 to 906 shall individually turn on channels 1 to 6 respectively.

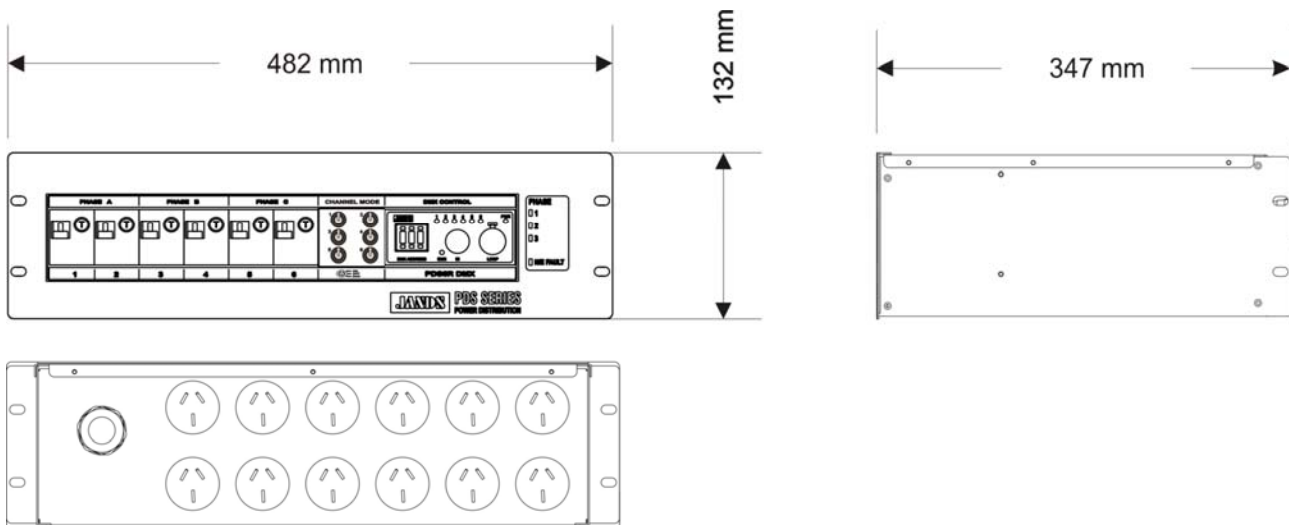
DMX level switching threshold shall be set by setting the DMX address to 7xx (where xx is the switching threshold xx%) prior to energising the unit.

The presence of a power supply to the DMX circuitry shall be indicated by a red LED and a valid DMX input signal shall be indicated by a green LED.

There shall be six (6) blue LEDs to indicate the on/off status of each of the six channels.

Six (6) Channel Mode switches will allow each channel to be forced ON or OFF or set to DMX control.

The DMX controlled power switcher shall be the JANDS PDS6R-DMX.



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