

# Power Point Power Distribution System User Manual

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## Contents

|          |  |           |
|----------|--|-----------|
| <b>1</b> | <b>Introduction</b>                      | <b>4</b>  |
| 1.1      | Overview                                 | 4         |
| 1.2      | Features                                 | 4         |
| 1.3      | Warranty                                 | 4         |
| <b>2</b> | <b>Single Phase Outputs</b>              | <b>5</b>  |
| 2.1      | 12 Output Channels                       | 5         |
| 2.2      | 6 Output Channels                        | 5         |
| <b>3</b> | <b>Three Phase Outputs</b>               | <b>5</b>  |
| <b>4</b> | <b>Setting Up and Connecting</b>         | <b>6</b>  |
| 4.1      | Safety                                   | 6         |
| 4.2      | Unpacking                                | 6         |
| 4.3      | Mounting                                 | 6         |
| 4.4      | Connections                              | 6         |
| 4.4.1    | Input Power Supply                       | 6         |
| 4.4.2    | Outputs and Phasing                      | 6         |
| <b>5</b> | <b>Troubleshooting</b>                   | <b>6</b>  |
| 5.1      | Maintenance                              | 6         |
| 5.2      | Tripped Breakers                         | 6         |
| <b>6</b> | <b>Specifications and Output Options</b> | <b>7</b>  |
| 6.1      | Wieland Pinouts                          | 9         |
| 6.2      | Socapex Pinouts                          | 9         |
| <b>7</b> | <b>Compliance Statements</b>             | <b>10</b> |

## 1 Introduction

### 1.1 Overview

PowerPoint is a simple to use power distribution unit with a 3 phase mains input (single phase input available) and either 6 or 12, single phase outputs or 3, three phase outputs, depending upon the model.

Designed for applications wherever fixed or mobile power distribution is required, the PowerPoint distribution rack offers a 4-pole mains input isolator switch with Neutral Disconnect as standard and individual RCBO (RCD+MCB) per output channel. There are also 3 neon phase indicators to show power input to the rack.

Single phase output circuit rating can be specified as either 10A, 16A or 25 Amps and back panel options include either Australian GPO, Socapex, PowerCon or Hard Wired Terminals, depending upon the model.

### 1.2 Features

The PowerPoint Feature list includes:

- A front panel mounted 4-pole mains input isolator switch with neutral disconnect as standard provides easy access for quick isolation for the PowerPoint
- Three neon indicators show state of input phase power. Easily visible from a distance
- Twelve 10Amp, twelve 16Amp, six 25Amp or three 40Amp output circuits
- Residual Current circuit Breaker with Overcurrent protection (RCBO) devices for each output circuit are used to combine protection against current overload and short circuits and protection against earth leakage currents. Essentially, they protect connected loads and prevent users from receiving a life threatening shock. Standard on all LSC power products
- The PowerPoint is at home as a 19" rackmount module in portable flight cases or touring frames or permanently installed in equipment racks. Versatility plus for any situation!
- Three phase operation
- Single phase operation possible
- Utilising the same proven mechanical chassis as LSC's premier products such as the APS power distribution unit, GEN VI, GEN X and RED3 dimmers, the PowerPoint is built to the same exacting standards ensuring great consistent performance when you need it, time after time.

### 1.3 Warranty

LSC Control Systems warrants all products manufactured by LSC will be free from defects in workmanship and materials affecting normal use subject to the conditions and limitations provided in the limited warranty as described on the LSC website. Click [here](#) to view the LSC warranty.

## 2 Single Phase Outputs

### 2.1 12 Output Channels

Available in 10 Amp outputs or 16 Amp outputs. See section 6 for rear panel connector options.



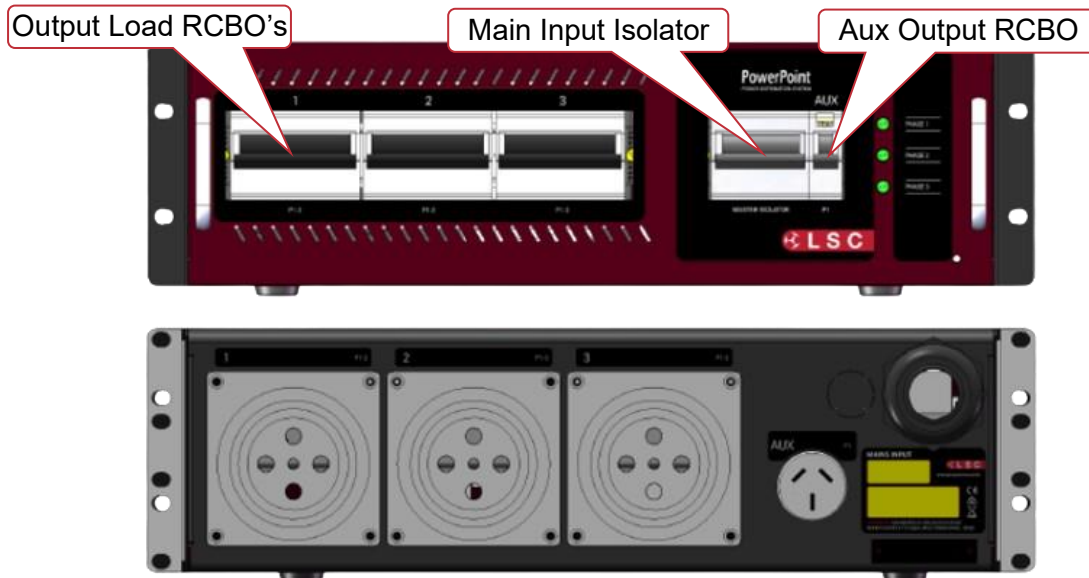
### 2.2 6 Output Channels

Available in 25 Amp outputs. See section 6 for rear panel connector options.



## 3 Three Phase Outputs

3-phase input mains power protected by 40A 3-phase MCB.  
Three, 3-phase output channels protected by either 40A MCB or RCBO.  
Aux output channel protected by 16A RCBO.



## 4 Setting Up and Connecting

### 4.1 Safety

All electrical work must be carried out by suitably qualified persons.

### 4.2 Unpacking

Your PowerPoint is fully tested and inspected before leaving the factory. Upon delivery, inspect the PowerPoint for signs of damage. In the event of any damage, contact your LSC agent.

### 4.3 Mounting

The PowerPoint is designed for mounting in a standard 19 inch rack. It occupies 3RU (Rack Units) of space.

### 4.4 Connections

#### 4.4.1 Input Power Supply

Always ensure that the Input Isolator is in the OFF position before connecting or disconnecting the input power.

PowerPoint must be fed from a suitable external circuit breaker.

The nominal input voltage is 220-240 Volts. 3-phase Star (380-415V). 50-60Hz.

Single phase operation of the single phase output models is possible but input current must be limited to 63A in total.

#### 4.4.2 Outputs and Phasing

Always ensure that the Output Load RCBO's are in the OFF position before connecting or disconnecting any loads.

The individual single phase outputs are fed from the following input power phases. This input phase numbering is also shown on the front panel below each output circuit breaker.

| Input Phase | Output | Input Phase | Output |
|-------------|--------|-------------|--------|
| 1           | 1      | 1           | 7      |
| 2           | 2      | 2           | 8      |
| 3           | 3      | 3           | 9      |
| 1           | 4      | 1           | 10     |
| 2           | 5      | 2           | 11     |
| 3           | 6      | 3           | 12     |

## 5 Troubleshooting

**Warning.** No user controls or user serviceable parts are located inside the PowerPoint. Refer all servicing to suitably qualified personnel.

### 5.1 Maintenance




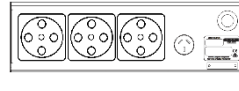
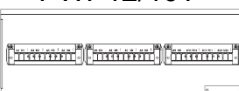


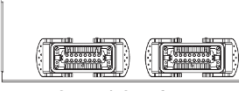


Check that all connector screw terminals (if fitted) are tight. This must be performed by a suitably qualified person.

### 5.2 Tripped Breakers

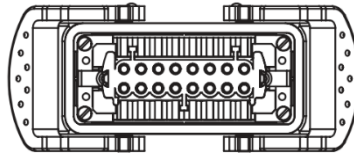
If a channel is not working check the RCBO (Residual Current circuit Breaker with Over current protection) for that channel. If the RCBO has tripped (OFF), firstly try to determine the cause of the breaker tripping. It could be a blown lamp or a circuit overload or a earth leakage fault. Rectify to problem (replace the lamp or reduce the load) then restore the RCBO by pushing it all the way down then lifting it up. If the RCBO continues to trip, refer the problem to a suitably qualified person.

## 6 Specifications and Output Options

| Model             | 12 x 10A  | 12 x 16A  | 6 x 25A   | 3 X 40A  |
|-------------------|---|---|---|--|
| <b>Protection</b> | 10A Residual Current Breaker (RCBO) per output channel  | 16A Residual Current Breaker (RCBO) per output channel  | 25A Residual Current Breaker (RCBO) per output channel  | 40A MCB or RCBO on 3-phase output channels, 16A RCBO on aux output channel |
|                   | 30mA Earth leakage trip current per channel<br>Front panel mounted neon power indicator per phase.  |   |   |  |
|                   | Mains power input protected by 4-pole mains isolator switch with neutral disconnect   |   |   | Mains power input protected by 40A 3-phase MCB                             |
|                   |   | * PWP12/16/32A model supplied with 3-phase 32A MCB in lieu of 4-pole mains isolator<br>* PWP12/16/40A model supplied with 3-phase 40A MCB in lieu of 4-pole mains isolator  |   |  |
| <b>Power</b>      | Nominal 100-240V AC<br>3-phase star TN-S with fully rated earth, 50-60Hz<br>Operating range typically 90-260V AC 45-65Hz<br>Auto voltage and frequency adjustment<br>Hardwired models supplied with rear panel mounted 5 cage clamp style terminals |   |   |  |
|                   | Supplied with 1.2m long H07 rubber 5 core x 6mm <sup>2</sup> cable with 32A 5-pin 3-phase plug fitted (export models supplied with no plug)   | Supplied with 1.2m long H07 rubber 5 core x 10mm <sup>2</sup> cable no connector supplied (export models supplied with no plug)<br><br>*PWP12/16/32A model supplied with 3-phase 1.2m H07 5 core x 6mm <sup>2</sup> rubber cable fitted | Supplied with 1.2m long H07 rubber 5 core x 6mm <sup>2</sup> cable with 40A 5-pin 3-phase plug fitted (export models supplied with no plug) |  |

|                   |  |   |  |  |  |
|-------------------|--|---|--|--|--|
|                   |  | with 32A 3-phase plug.<br>*PWP12/16/40A model supplied with 3-phase 1.2m H07 5 core x 6mm <sup>2</sup> rubber cable fitted with 40A 3-phase plug                                  |  |  |  |
| <b>Mechanical</b> | 483mm (w) x 132mm (h) x 300mm (d)<br>3RU x 19" rackmount<br>Weight: 11kg<br>Corrosion-resistant, powder-coated steel chassis with rear-screened polycarbonate labels |   |  |  |  |
| <b>Outputs</b>    | <b>PWP12/10A</b><br><br>12 x 3-pin 10 Amp Australian sockets                        | <b>PWP12/16A/32</b><br><br>12 x 3-pin 20 Amp Australian sockets. 32A MCB (Main Circuit Breaker)  | <b>PWP6/25A</b><br><br>6 paired 3-pin 20Amp/15Amp Australian sockets | <b>PWP3/40A</b><br> |  |
|                   | <b>PWP12/10T</b><br><br>12Ch x 10A Hardwired terminals                             | <b>PWP12/16A/40</b><br><br>12 x 3-pin 20 Amp Australian sockets. 40A MCB (Main Circuit Breaker) | <b>PWP6/25T</b><br><br>6Ch x 25A Hardwired terminals                |  |  |
|                   | <b>PWP12/10W</b><br><br>2 x 16-pin Wieland sockets                                |   |  |  |  |
|                   | <b>PWP12/10X.</b><br><br>2 x 19-pin Socapex sockets                               |   |  |  |  |
|                   | <b>PWP12/10P</b><br><br>12 x PowerCON sockets                                     |   |  |  |  |

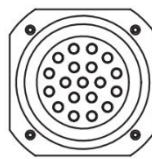
### 6.1 Wieland Pinouts



**WARNING.** Several wiring standards exist for the pin outs of Wieland multipin sockets. If in doubt, a suitably qualified person should check that your Wieland cables are wired to the same standard as your Powerpoint.

Note: Earth connection is via the clips on the side of the socket insert.

### 6.2 Socapex Pinouts



| Connector #1 | Function       | Connector #2 | Function        |
|--------------|----------------|--------------|-----------------|
| Pin 1        | Chan 1 Active  | Pin 1        | Chan 7 Active   |
| Pin 2        | Chan 1 Neutral | Pin 2        | Chan 7 Neutral  |
| Pin 3        | Chan 2 Active  | Pin 3        | Chan 8 Active   |
| Pin 4        | Chan 2 Neutral | Pin 4        | Chan 8 Neutral  |
| Pin 5        | Chan 3 Active  | Pin 5        | Chan 9 Active   |
| Pin 6        | Chan 3 Neutral | Pin 6        | Chan 9 Neutral  |
| Pin 7        | Chan 4 Active  | Pin 7        | Chan 10 Active  |
| Pin 8        | Chan 4 Neutral | Pin 8        | Chan 10 Neutral |
| Pin 9        | Chan 5 Active  | Pin 9        | Chan 11 Active  |
| Pin 10       | Chan 5 Neutral | Pin 10       | Chan 11 Neutral |
| Pin 11       | Chan 6 Active  | Pin 11       | Chan 12 Active  |
| Pin 12       | Chan 6 Neutral | Pin 12       | Chan 12 Neutral |
| Pin 13       | Earth          | Pin 13       | Earth           |
| Pin 14       | Earth          | Pin 14       | Earth           |
| Pin 15       | Earth          | Pin 15       | Earth           |
| Pin 16       | Earth          | Pin 16       | Earth           |
| Pin 17       | Earth          | Pin 17       | Earth           |
| Pin 18       | Earth          | Pin 18       | Earth           |
| Pin 19       | Earth          | Pin 19       | Earth           |

## 7 Compliance Statements

The Power Point from LSC Control Systems Pty Ltd meets all required CE (European) and RCM (Australian).

*CENELEC (European Committee for Electrotechnical Standardization).*



*Australian RCM (Regulatory Compliance Mark).*



**WEEE** (*Waste Electrical and Electronic Equipment*).



The WEEE symbol indicates that the product should not be discarded as unsorted waste but must be sent to separate collection facilities for recovery and recycling.



For more information about how to recycle your LSC product, contact the dealer where you purchased the product or contact LSC via email at [info@lsccontrol.com.au](mailto:info@lsccontrol.com.au)

You can also take any old electrical equipment to participating civic amenity sites (often known as 'household waste recycling centres') run by local councils. You can locate your closest participating recycling centre using the following links.

- AUSTRALIA <http://www.dropzone.org.au>.
- NEW ZEALAND <http://ewaste.org.nz/welcome/main>
- NORTH AMERICA <http://1800recycling.com>
- UK [www.recycle-more.co.uk](http://www.recycle-more.co.uk).

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