



Power Point Power Distribution System User Manual

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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 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.

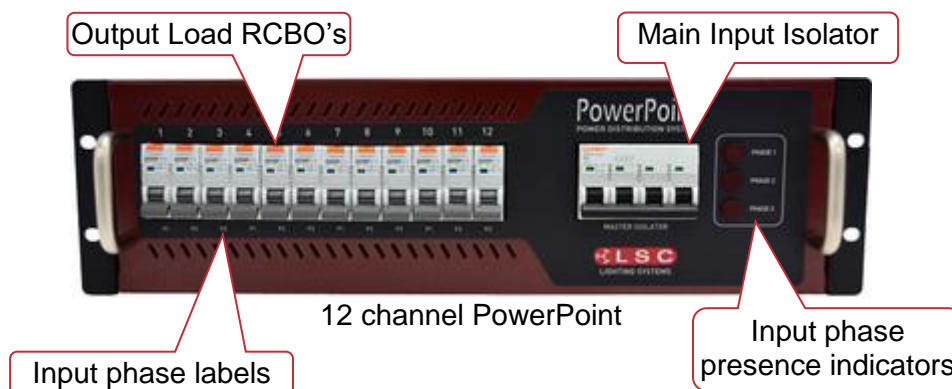
Output circuit rating can be specified as either 10A, 16A or 25 Amps and back panel options include either Australian GPO, Socapex, PowerCon or Hard Wired Terminals, depending upon the model.

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 10A, twelve 16A or six 25A 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 and RED3 dimmers, the PowerPoint is built to the same exacting standards ensuring great consistent performance when you need it, time after time.

2 Front Panel



See section 4 for rear panel options.

3 Setting Up and Connecting

3.1 Safety

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

3.2 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.

3.3 Mounting

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

3.4 Connections

3.4.1 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 is possible but input current must be limited to 63A in total.

3.4.2 Outputs and Phasing

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

The individual 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

4 Troubleshooting

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

4.1 Maintenance




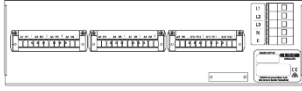


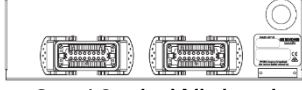


Check that all connector screw terminals (if fitted) are tight. This must be performed by a suitably qualified person.

4.2 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.

5 Specifications and Output Options

Model	12 x 10A	12 x 16A	6 x 25A
Protection	10A Residual Current Breaker (RCBO) per output channel	16A Residual Current Breaker (RCBO) per output channel	25A Residual Current Breaker (RCBO) per output channel
	30mA Earth leakage trip current per channel Front panel mounted neon power indicator per phase Mains power input protected by 4-pole mains isolator switch with neutral disconnect		
		* PWP12/16/32A model supplied with 3-phase 32A MCB in lieu of 4-pole mains isolator * PWP12/16/40A model supplied with 3-phase 40A MCB in lieu of 4-pole mains isolator	
Power	Nominal 100-240V AC 3-phase star TN-S with fully rated earth, 50-60Hz Operating range typically 90-260V AC 45-65Hz Auto voltage and frequency adjustment Hardwired models supplied with rear panel mounted 5 cage clamp style terminals		
	Supplied with 1.2m long H07 rubber 5 core x 6mm ² 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 ² cable no connector supplied (export models supplied with no plug) *PWP12/16/32A model supplied with 3-phase 1.2m H07 5 core x 6mm ² rubber cable fitted with 32A 3-phase plug. *PWP12/16/40A model supplied with 3-phase 1.2m H07 5 core x 6mm ² rubber cable fitted with 40A 3-phase plug	Supplied with 1.2m long H07 rubber 5 core x 6mm ² cable with 40A 5-pin 3-phase plug fitted (export models supplied with no plug)
Mechanicals	483mm (w) x 132mm (h) x 300mm (d) 3RU x 19" rackmount Weight: 11kg Corrosion-resistant, powder-coated steel chassis with rear-screened polycarbonate labels		
Peace of mind	CE (European) and RCM (Australian) approved, two-year warranty, designed and manufactured in Australia by LSC, an Australian owned company with over 40 years' experience in developing world first products		

Outputs	 <p>PWP12/10A 12 x 3-pin 10 Amp Australian sockets</p>	 <p>PWP12/16A/32 12 x 3-pin 20 Amp Australian sockets. 32A MCB (Main Circuit Breaker)</p>	 <p>PWP6/25A 6 paired 3-pin 20Amp/15Amp Australian sockets</p>
	 <p>PWP12/10T 12Ch x 10A Hardwired terminals</p>	 <p>PWP12/16A/40 12 x 3-pin 20 Amp Australian sockets. 40A MCB (Main Circuit Breaker)</p>	 <p>PWP6/25T 6Ch x 25A Hardwired terminals</p>
	 <p>PWP12/10W 2 x 16-pin Wieland sockets</p>		
	 <p>PWP12/10X. 2 x 19-pin Socapex sockets</p>		
	 <p>PWP12/10P 12 x PowerCON sockets</p>		

5.1 Wieland Pinouts

Connector 1	Function	Connector 2	Function
Pin 1	Chan 1 Active	Pin 1	Chan 7 Active
Pin 2	Chan 2 Active	Pin 2	Chan 8 Active
Pin 3	Chan 3 Active	Pin 3	Chan 9 Active
Pin 4	Chan 4 Active	Pin 4	Chan 10 Active
Pin 5	Chan 5 Active	Pin 5	Chan 11 Active
Pin 6	Chan 6 Active	Pin 6	Chan 12 Active
Pin 7	Not used	Pin 7	Not used
Pin 8	Not used	Pin 8	Not used
Pin 9	Chan 1 Neutral	Pin 9	Chan 7 Neutral
Pin 10	Chan 2 Neutral	Pin 10	Chan 8 Neutral
Pin 11	Chan 3 Neutral	Pin 11	Chan 9 Neutral
Pin 12	Chan 4 Neutral	Pin 12	Chan 10 Neutral
Pin 13	Chan 5 Neutral	Pin 13	Chan 11 Neutral
Pin 14	Chan 6 Neutral	Pin 14	Chan 12 Neutral
Pin 15	Not used	Pin 15	Not used
Pin 16	Not used	Pin 16	Not used

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

Note: This is the recommended wiring scheme for Harting/Wieland connectors. An alternative wiring scheme exists for these connectors and Power Point units can be wired to the alternative

scheme by special order. If you order the alternative wiring then the pin-outs are listed in a separate document that is included with your Power Point.

5.2 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

6 Compliance Statements

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



European Committee for Electrotechnical Standardization (CENELEC).



Australian RCM (Regulatory Compliance Mark).

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