

OMEGA Ω TECH



**THREE PHASE
DISTRIBUTION**

KEY FEATURES

RCBOs per channel - not per phase, ideal for LED's with high leakage currents

Complete Power Monitoring - 19 metrics measured

Monitoring screen changes colour if power goes outside of predefined range providing a simple warning of fault

Communications port for Remote Monitoring and Data Logging capabilities

Optional client logo in full colour

Three Phase Out option allowing units to be linked together for improved distribution options

Large range of output connector options

Hand built in Western Australia to the highest standards complying to Australian Standards

All-bolt construction for easy service and maintenance — no rivets

Standard 19" 3RU construction, 300mm deep

Signature hard wearing powdercoat



POWER MONITORING FUNCTIONS

- Ω Phase Voltage
- Ω Phase to Neutral Voltage
- Ω Phase Current
- Ω Frequency
- Ω Average Power Factor
- Ω Active Power
- Ω Active Power per phase L1 L2 L3
- Ω Reactive Power
- Ω Apparent Power
- Ω Active Energy
- Ω Reactive Energy
- Ω System Instantaneous Current Demand
- Ω System Instantaneous Power Demand
- Ω System Instantaneous Apparent Power Demand
- Ω System Maximum Current Demand
- Ω System Maximum Power Demand
- Ω System Maximum Apparent Power Demand
- Ω Voltage THD 1% up to 31st
- Ω Current THD 1% up to 31st
- Ω Remote Monitoring / Logging via Modbus RS485



DESCRIPTION

The OmegaTech Power Distribution Unit (PDU) is designed for fixed or mobile applications where three phase to single phase socket outlet power distribution is required. OmegaTech offers a variety of custom configurations to suit individual requirements.

ELECTRICAL

All units feature individual Residual Current Breaker with Over Current protection (RCBO) per circuit as well as mains isolating switches. Most also offer a 3phase loop out tail with Residual Current Breaker with Over Current protection (RCBO) and Over Current protection (MCB) which is a first in a 19" rack distribution. All units include comprehensive input power monitoring display, which turns on prior to main breaker, meaning any untoward power situations can be identified before damage to equipment is caused.

MECHANICAL

The Power Distribution Unit is designed to rack mount in a standard 19" equipment rack. Dimensions are 480mm (19")wide x 300mm deep x 130mm high (3RU). The PDU requires no external ventilation.

The Power Distribution Unit body is constructed of 1.2 mm steel and fascias from 2.0mm steel. Metal surfaces are zinc treated and finished in a signature hard wearing off black textured hammertone which does not scratch or mark.

Full colour labeling (including the option of client logo) is achieved through indelibly etched UV-cured ink.

COMPLIANCE

All OmegaTech products are built to comply with Australian Regulations including:

- AS/NZS 3002:2021 — Electrical Installations — Shows and carnivals
- AS/NZS 4249:2022 — Electrical Installations — Film, video and television sites
- AS/NZS 4417:2020 — RCM/EESS Responsible Supplier in the Electrical Equipment Safety System
- AS/NZS 61439:2016 — Australian Standards for low-voltage switchgear and control gear assemblies

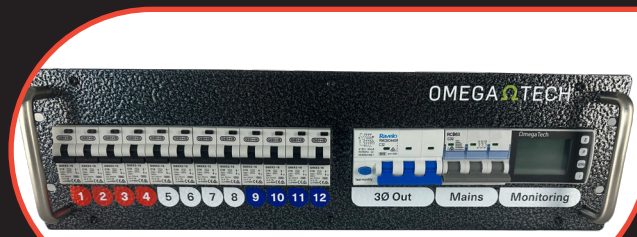


12 CHANNEL DISTRIBUTION

With every industry standard connector available, OmegaTech's standard range of 12 Channel PDU's offer any combination required to suit your individual requirements. All units feature a 32A MCB Mains Isolator, 12x 16A Type A RCBO, Advanced Power Monitoring, as well as a 2m Supply cable. This range also has the option of a 3Ø Loop Out which features its own 32A 3Ø RCBO and 0.5m Loop Output Cable. All units come standard with a 32A 56 Series Plug (and Socket) with CeeForm optional at no additional cost.



PDU-G-M (L)
12x 15A Australian GPO



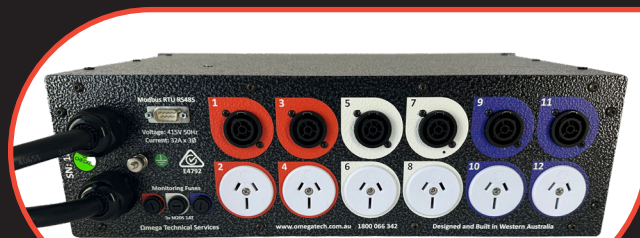
PDU-PT-M (L)
6x PowerCON & 6x TrueCON



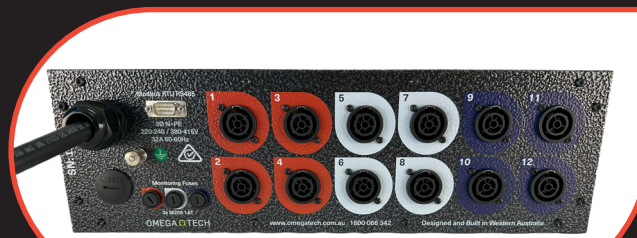
PDU-TG-M (L)
6x TrueCON & 6x 15A GPO



PDU-T-M (L)
12x TrueCON



PDU-PG-M (L)
6x PowerCON & 6x 15A GPO



PDU-P-M (L)
12x PowerCON

MULTIPIN SOLUTIONS



PDU-W-MA
3x 10pole Harting (Wieland)
1x 10A GPO



32A MCB Mains Isolator;
12x 16A & 1x 10A RCBO;
Advanced Power Monitoring;
2m Supply Cable
56 Series Plug (CeeForm Optional)



PDU-S-MA
2x Socapex
1x 10A GPO

APPLICATION

Ideal for LED Screens and lighting applications, OmegaTech's multi-pin PDU's feature a "13th" Courtesy 10A GPO for powering processors / auxiliary equipment in the rack. Paired with our 500A Powerlock Racks, we offer custom numbering to allow flexible touring racks that can be broken down into smaller units, making for a more economical investment

SIMPLE & BASIC



OTS-PDU-G
32A MCB Mains Isolator; 12x 10A RCBO; 12x 10A GPO;
2m Supply Cable w/ Plug (no monitoring or loop out options)



3 PHASE SPLITTERS

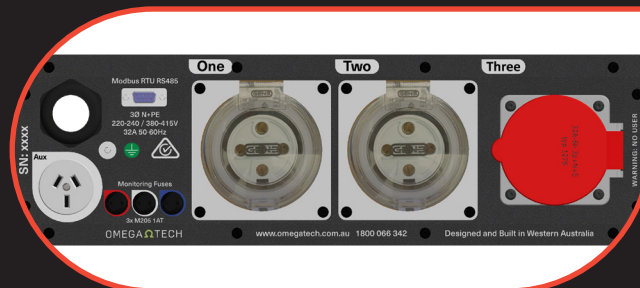


3Ø Rack Mount Splitter: 32A MCB Mains Isolator;
3x 32A 3Ø & 1x 10A RCBO;
Advanced Power Monitoring; 2m Supply Cable
32A 56 Series Plug (CeeForm Optional)

Optional HD Version; (-HD)
63A MCB Mains Isolator;
2m Supply Cable;
63A CeeForm Plug



PDU-3PH-M
3x 32A 3Ø 56 Series
1x 10A GPO Outlets



PDU-3PH-C1-M
2x 32A 3Ø 56 Series; 1x 32A 3Ø
CeeForm; 1x 10A GPO Outlets



PDU-3PH-C2-M
1x 32A 3Ø 56 Series; 2x 32A 3Ø
CeeForm; 1x 10A GPO Outlets



PDU-3PH-C3-M
3x 32A 3Ø CeeForm
1x 10A GPO Outlets

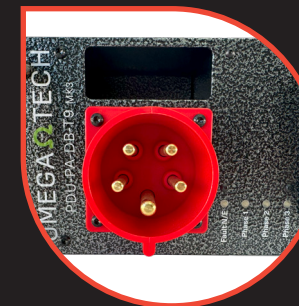
APPLICATION

Delivering another industry first, OmegaTech's 19" 3RU 3 phase splitter is available in a mix of 56 Series and CeeForm Connectors. Built on the same format as our other PDU racks, complete with power monitoring and Courtesy GPO for powering processors / auxiliary equipment in the rack. Available with either 32A 56 Series, 32A CeeForm or 63A CeeForm options, kiss goodbye to the old electrical j-box and upgrade in style

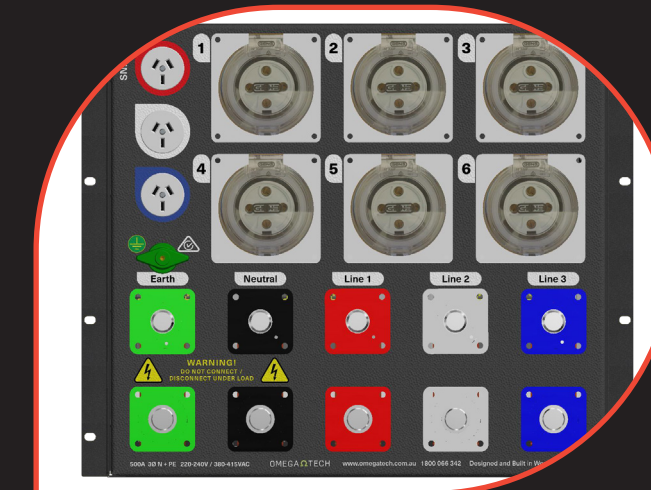
CUSTOM SOLUTIONS



OmegaTech offers custom solutions to fit your exact requirements. Previous projects have included units designed for d&b AudioTechnik D40 / D80 Amplifiers, Meyer Powered Speakers, L-Acoustics Amplifiers, PowerSoft x-Series 3Ø Amplifiers, and many more.



POWER LOCK



FEATURES

This beast is loaded with features not seen before in Australia. Built on the same 9RU 19" chassis you have come to expect from OmegaTech, the PL500 offers 500A Powerlock with hot pass through, 6x 40A 3Ø outlets and 3x 15A courtesy outlets. Each 3Ø outlets are protected by individually adjustable Earth Leakage with digital readout, and a 4pole Hydraulic Magnetic MCB (temperature independent) The unit also features an E-Stop, Over / Under voltage and Neutral loss prevention. Earth Leakage Relays, Voltage Protection and E-Stop can all be manually locked out if required.

Pared with our Socapex or Wieland Multipin racks, this forms the foundation for the most flexible touring rack on the market today.

ABOUT OMEGATECH

OmegaTech is a Western Australian privately owned company, specialising in the design and manufacture of equipment for the events industry. With over 20 years' of production experience, director Craig Beatson understands the importance of quality and reliability. OmegaTech specialises in custom solutions, providing unique products to an industry where one size seldom fits all. With an eye for precision and quality, OmegaTech prides itself on producing high quality products.

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