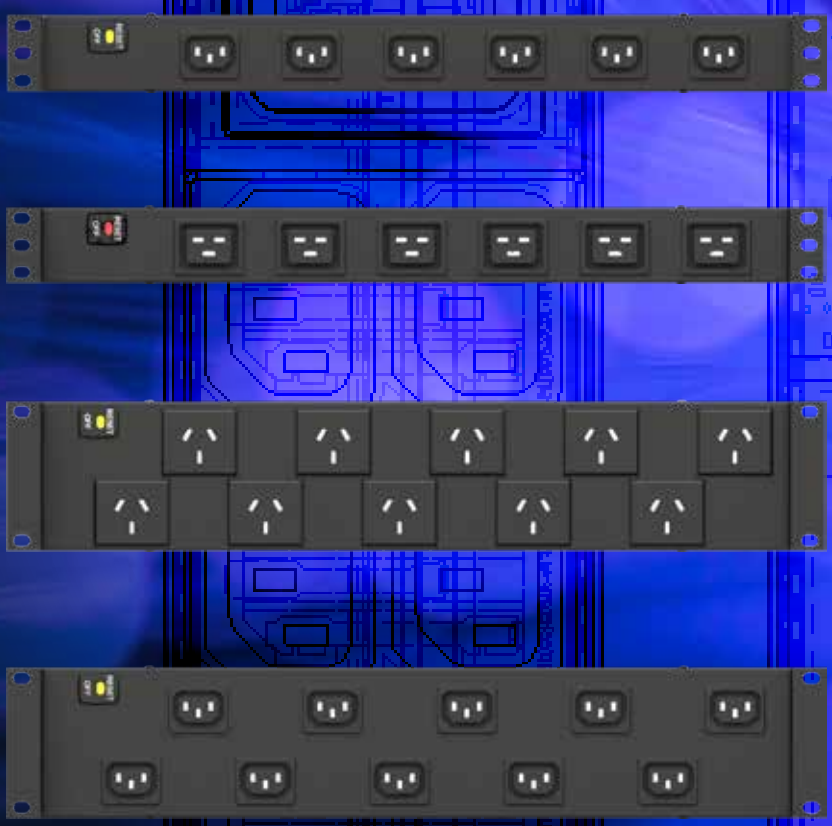
MFB®

Intelligent POWER

RACK POWER

Distribution Units



Basic
Locally Metered
Metered, Monitored & Switched

MFB Intelligent Power - PDU's for Rack Systems

Australia's largest PDU manufacturer introduces Intelligent Power®, adding the most extensive range of rack power options available today. Delivering greater flexibility, engineering excellence and local manufacturing.

MFB Intelligent Power PDU's come in a variety of styles from Basic, Locally Metered, Networked Metered and Monitored and Networked, Metered, Monitored and individually Switched. Switched units allow for turning powered devices on or off, as well power cycling devices for greater energy efficiency. Controlling the power outlet of the device connected in the Server Rack by visiting the dedicated web browser page.

1. Colour Screen Display

Full power information and environmental sensor status on the Intelligent Power can be viewed by the LCD screen. In the case of exceeding user set current load or environmental thresholds, Intelligent Power can notify the incident via email or SNMP traps.

2. Network and Serial Ports

Providing full control and status of all PDU functions.

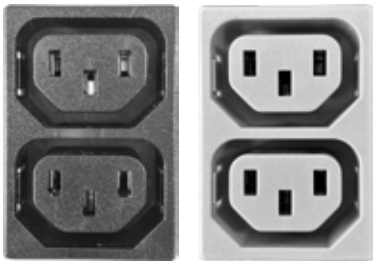
3. Optional Sensors

Combined temperature and humidity sensor. Dual digital dry contact alarm outputs.

4. Outlet Types

10 amp & 15 amp Australian GPO's

C13 & C19 IEC outlets



IEC C13 Dual Black, Gray Outlets
Also available in Dual white

C13 & C19 lockable IEC outlets

C14 & C20 IEC plugs

5. Standard and High Density Outlet Blocks

Modular format on all outlet types in blocks of 8 to 16 outlets per module allowing for standard & high density configurations. With varying outlet types. The maximum number of outlets on Intelligent Power is 48

7. Leads & Plug Tops

Lead length is 3.0M as standard. Plugs Tops from 10-32A, plain, captive. IEC and Clipsal style

6. Magnetic / Hydraulic circuit breakers

Designed for worldwide data centre compatibility, provides the best in class performance in an innovative low profile, space saving package, providing the ability to reduce the overall size of the PDU, while increasing transmission capacity. Patent pending flush rocker actuator design offers additional protection against accidental switching.

Features

Horizontal

MFB Intelligent Power PDU's are available in a 19" Rack Mountable horizontal format. In this format they are 484mm Width (440mm without RU mounting ears) x 200mm depth x 44mm height

Vertical

MFB Intelligent Power PDU's are available in a vertical format. A variety size variations up to 2 meters

Extrusions

Extrusion widths of 45mmm 56mm and 66mm depending on outlet and monitoring combination required. utilizing combinations of AUS, IEC C13 and IEC C19 outlets. IEC C20 Input Plugs

Max Outlets

Maximum number of outlets is 48

Wiring Configurations

10A 16A 20A 32A wiring configurations in single phase and 3 phase.

Power Lead Options

3 meter lead as standard with your choice of plug to suit, such as 3 pin standard, 3 pin screw lock, to 5 pin screw lock complete the product.

4 Versions of Power Distribution Units (PDU)

Basic

This is the basic form of PDU. There is no feedback in relation to performance available

Locally Metered

A small LCD Display fitted and when the PDU is powered up provides immediate limited power performance such as kWh - Energy, kW - Power, A - Current and V - Volts

Networked Metered and Monitored

This unit is IP Managed. This allows for remote access and monitoring of equipment. There is a meter provided on the PDU which also provides local feedback. A thermostat probe is also fitted and placed inside the enclosure. The meter provides feedback in relation to temperature and humidity properties within the enclosure.

Network Metered, Monitored and Individually Switched

This system is IP Managed and allows remote monitoring of equipment. There is a meter provided on the PDU which also provides local feedback. A thermostat probe is also fitted and placed inside the enclosure. The meter provides feedback in relation to temperature and humidity properties within the enclosure. Via web browser access, operators can monitor rack mounted equipment performance to turn equipment on and off. Likewise, the facility to fault diagnose and send an email in the event a piece of equipment has failed.

Plugs

Standard 10A

Screw Lock 10A

Screw Lock 32A – 3 pin

Screw Lock 32A – 5 pin

IEC 10A – 3 pin

IEC 16A – 3 pin

At a glance

- Retrofit
- 1 to 48 outlets
- 2kW to 24kW power ranges
- SNMP enabled for obtaining all device details including traps for alarms
- kWh, kW, Amperage, Voltage and PF monitoring
- Single phase inputs available in 10, 16, 20 and 32amp
- Three phase inputs available in 16 and 32amps
- Up to 24 web controlled power outlets
- Australian Designed and Manufactured
- MFB Products – Australia's largest PDU manufacturer.

Setting Up MFB Intelligent Power PDU

Via SMPT

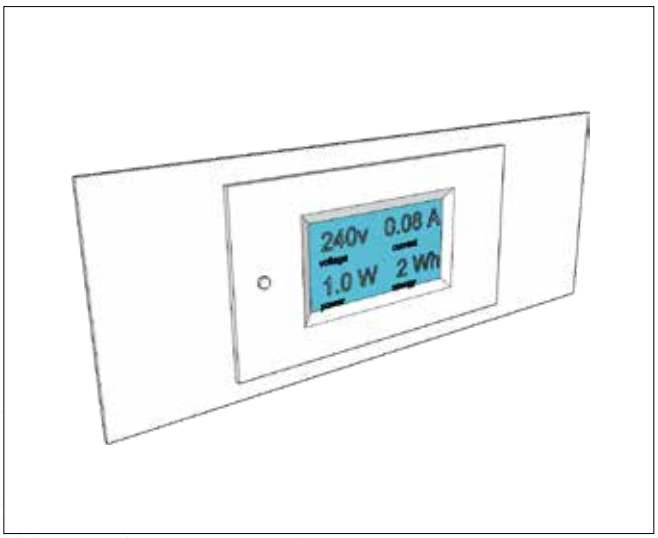
Login Information

IP Address: 192.168.1.100 = Default fixed IP
Username: admin
Password: admin

Ensure the MFB Switched / Metered Intelligent Power PDU is connected to a computer via a suitable network cable.

Via the web browser

Software Instructions
Download V3 Series
Smart PDU



Network Controller

Functionality

- Scroll UP Button
- Scroll Down Button
- Set Button
- Network Connection Port
- Serial Port RS 485 x2 – for network bypass. If network down.
- On / OFF Light (Green for On)
- Speaker – Audible Alarm
- Digital Input – Dry Contact
- Temp / Humidity Sensor

Locally Metered Controller

Functionality

- Voltage (V)
- Power (W)
- Current (A)
- Energy (Wh)

Data Specifications

Type	
Horizontal	1RU 44mm c/w 19" mounting brackets
Vertical	Extensive Range to suit up to 45RU Data Enclosures

PDU Types	
Basic	No meter, no feedback. Circuit Breaker only
Locally Metered	Extensive Range to suit up to 45RU Data Enclosures
Network Metered Monitored	Digital Display. Full IP Network Functionality Temp / Humidity Sensor
Networked, Metered, Monitored and Switched	Digital Display Full IP Network Functionality Individually Metered and Switched Remote Access and Control

Power Feedback	
kWh	Energy
kW	Instant reading
V	Volts
A	Current / Amps
Frequency	50Hz standard
PF	Power Factor (Efficiency)
W	Power

Power Supply				
120V, 240V, 415V single phase and 415V 3 phase AC - all compatible				
Single Phase 240V	10A	15A	20A	32A
3 Phase 415V				32A
All boards minimum rating				32A
Max number of outlets	48			

Outlets				
Aus Outlet	10A			
Aus Outlet		15A		
IEC C13	10A	15A		Locking
IEC C19	10A	15A		Locking

Plugs
Australian Standard 10A
Australian Captive 56P310 10A
Australian Standard 15A
Australian Captive 56P315 15A
IEC C14 10A
IEC C20 16A
IEC 16A 60309
20A Captive Flat 3 Pin 56P320F
20A Captive 3 Pin 56P320
32A Captive 3 Pin 56P332
32A Captive 3 Pin Angled 56P332A
32A IEC 3 Pin 60309
32A Captive 3 Phase 5 Pin 56P532
32A IEC 3 Phase 5 Pin 60309

Circuit Breakers	
10A Carlingtech	Magnetic Hydraulic
16A Carlingtech	Magnetic Hydraulic
20A Carlingtech	Magnetic Hydraulic
32A Carlingtech - single phase	Magnetic Hydraulic
32A Carlingtech - three phase	Magnetic Hydraulic
10A	Thermal
16A	Thermal

Extrusions
MFB Standard Passive Profile
45mm width - Vertical
56mm width - Vertical
66mm width - Vertical

Leads				
Standard Length is 3M	10A	15A	20A	32A
Lead as standard fitted at bottom of PDU				

Compliance
AS/NZS 3100:2022 (General Requirements for Electrical Equipment)
AS/NZS 3000:2018 (Electrical Installations – Wiring Rules)
Designed to be installed in 19"Server / Data Racks

mfb.com.au

Designed and manufactured in Australia

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